

**BADGER STATE**

# Smoke Signals

**For Radio Amateurs • By Radio Amateurs**

**Published Monthly Since 1969 • Our 24th Year • Single Copy: \$1.25**

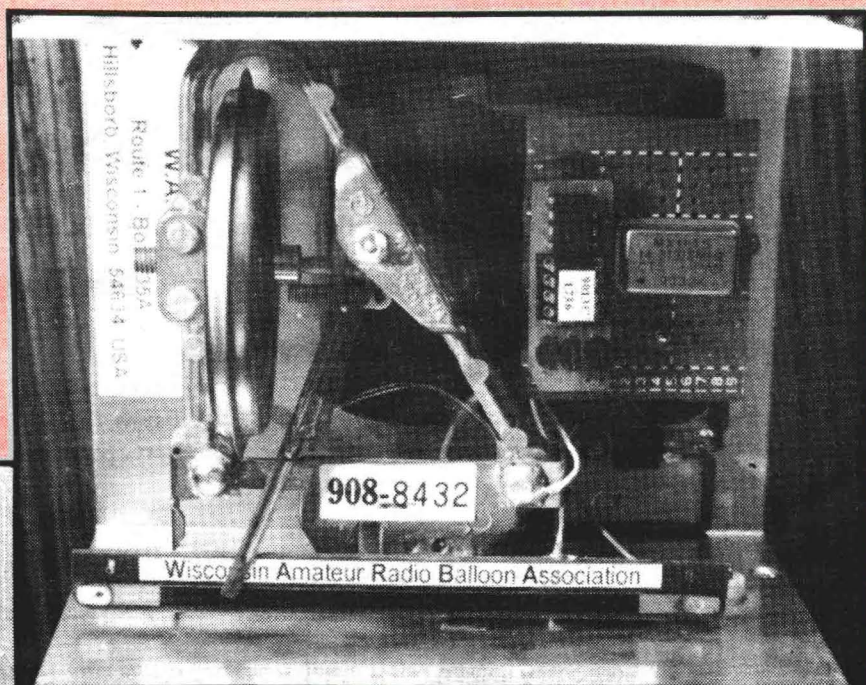
**Vol. 24 No. 1 - 277th Consecutive Monthly Issue - Baraboo, Wisconsin - January 1993**

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WARBA's  
Wonderous  
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Wanderer



The Wisconsin Amateur Radio Balloon Association's "EarthBreeze" around-the-world flight package is shown in these photos. In the package's interior, shown above, are, at left, a modified barometer and, at right, a board containing, at left, the ID module and, at right, the 50 milliwatt beacon transmitter. The modified barometer will change the beacon's CW transmitting speed to provide listeners with the approximate altitude of the package. The package exterior, in the photo at left, has the 20-meter transmitting antenna at the top, with the counterpoise below the package. Attached to the package are two flotation devices. Read more about WARBA's EarthBreeze experiment in a story by Steve Loeffler, WB9ZRE, on page 8 of this issue.

- Photos courtesy Steve Loeffler/WB9ZRE

## FCC Reduces Fines in Indecent Speech, Fraud Cases

The Federal Communications Commission has reduced penalties against amateurs in two recent enforcement cases.

Allen Burton, KA4URC, had been issued a Notice of Apparent Liability for 2,000 dollars for "indecent speech" on the 20-meter band on June 29, 1992. (See *Badger State Smoke Signals*, November, 1992.) Burton was given 30 days in which to appeal or pay the fine.

According to the FCC, Burton apologized for the incident and said he could not afford to pay the 2,000 dollar forfeiture. The Commission on November 23 announced that since federal law "directs the FCC to consider ability to pay when imposing monetary forfeitures," it was reducing the fine to 200 dollars.

"If in the future," the Commission told Burton, "you repeat the same violations, however, the FCC may impose a substantially higher monetary forfeiture."

In another case, Richard C. Bortner, KG5WS, of Zapata, Texas, in October was ordered to show cause why his license should not be revoked. Bortner had failed to respond to correspondence from the Commission in June and August of 1992, in which he was accused of fraud in the obtaining of his amateur license.

On November 10, the Commission withdrew the Order to Show Cause in view of on-going proceedings in the case. However, the termination "pertains only to the licensee's previous failure to reply to Commission correspondence," the FCC said, "and does not restrict the Field Operations Bureau from reasserting the original enforcement action against the licensee based on the underlying violation."



## Growth in Ranks Cited in Future Spectrum Plan

## Amateurs' Needs Outlined for Government Study

The American Radio Relay League (ARRL) has sent a Christmas list for amateurs to the U.S. Department of Commerce in response to an inquiry into frequency spectrum use and needs. A Notice of Inquiry from the Department's National Telecommunications and Information Administration sought public comment concerning current and future requirements for the radio spectrum and technology trends that would affect use of the radio spectrum.

After pointing out the purpose of the Amateur Radio Service and citing recent examples of technology advances and public service - packet radio, CLOVER and PACTOR; Hurricanes Andrew and Iniki - and mentioning amateur satellite and space accomplishments (including the SAREX program), the League noted the recent explosion of the ama-

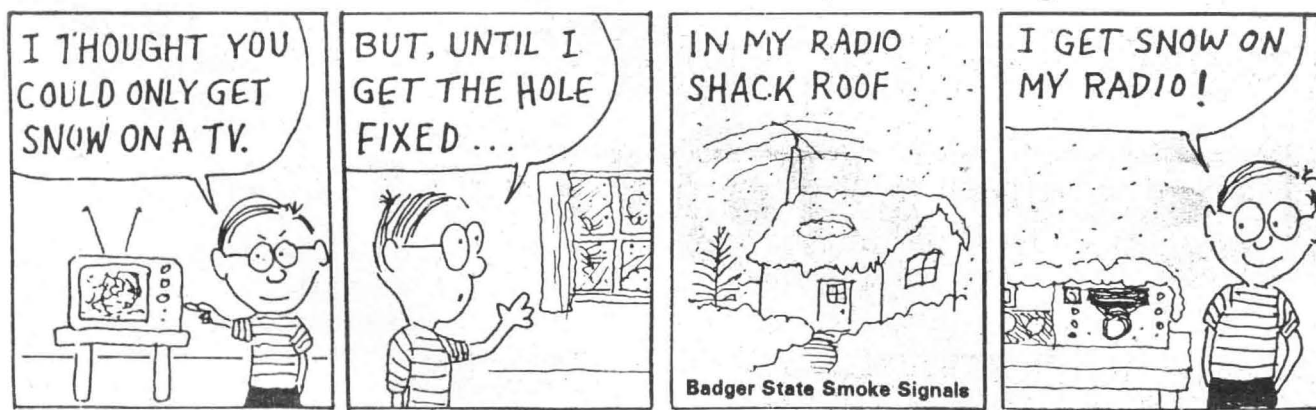
Please turn to page 7

- ARRL Bulletin 110, 11/25/92

*Have a Great 1993*  
*Live Long And Prosper!*

## ELMER

By Rich Regent, K9GDF



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# What's Happening

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Edited by Kenneth A. Ebner, K9EN • 822 Wauona Trail • Portage, WI 53901

## Swapfests

### and Other Social Events

**SUNDAY, JANUARY 10, 1993.** 21st Annual WARAC MIDWINTER swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact WARAC Swapfest, P.O. Box 1072, Milwaukee, WI 53201. Please note this will be on a Sunday next year instead of the previous Saturday dates. (see also ad on back page and see ad elsewhere this issue with full details.)

**SUNDAY, JANUARY 31, 1993:** Wheaton Community Radio Amateurs Hamfest at the Odeum Expo Center, Villa Park, IL. Contact: Wheaton Community Radio Amateurs, PO Box QSL, Wheaton, IL 60189. (708) 629-8006 or (708) 629-8889.

**SUNDAY, APRIL 4, 1993.** Madison, WI Swapfest, sponsored by MARA. Contact MARA, PO Box 8890-8890. Madison, WI 53708-8890. (608) 249-7579. Watch for flyer, and see ad back page.

**SUNDAY, APRIL 18, 1993.** Rockford Hamfest and Computer Show. Held at the Rockford Metro Centre. Contact RARA, PO Box 6931, Rockford, IL 61125. ((815) 399-6995. (Also see ad elsewhere in this issue.)

**SATURDAY, MAY, 1, 1993.** Cedarburg, WI Swapfest. Held at the Circle B Recreation Center, intersection of Highway 60 and County Highway I. Amateur Radio Exams given by Badger Examiners. (See TestPoint for further information.) For more swapfest information, contact O.R.C. Swapfest Committee, 11448 N. Laguna Dr., Mequon, WI 53092. (Watch upcoming BSSS for ad with full information.)

**SATURDAY, MAY 8, 1993.** Lakeshore Hamfest, Manitowoc County Expo. Contact: ManCoRad Radio Club, P.O. Box 204, Manitowoc, WI. Call: Ron, WS9X, (414) 793-4733 (nights) or Red, N9GHE, (414) 684-9097.

**SUNDAY, JUNE 13, 1993.** CWRA Swapfest, University Center, Stevens Point, WI. Contact:

Art Wysocki, N9BCA, 3356 April Lane, Stevens Point, WI 54481. (715) 344-2984.

**SATURDAY, JULY 10, 1993.** South Milwaukee ARC Swapfest, Oak Creek, WI. Contact SMARC, P.O. Box 102, South Milwaukee, WI. (414) 762-3235 Ext. 58.

**SATURDAY, JULY 10, 1993.** Eau Claire ARC Swapfest, Chippewa Falls Fairgrounds. Contact Lis Searing, N9EQR, 1129 McKinley Road, Eau Claire WI 54701. (715) 834-1303.

**SATURDAY, JULY 24, 1993.** Eau Claire, WI Swapfest. Watch for further details.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

## Club Meetings



Due to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

### Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Swapfest information should be sent to Ken Ebner. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

### Conditions for Reprinting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. This credit is mandatory, and no material may be printed unless it is given. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901.

### Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

BADGER AMATEUR RADIO SOCIETY  
(W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Wed. - 7:30 p.m. - B-314, Electrical Engineering Bldg.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.  
(STEVENS POINT)

Second Wed..

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tues - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave., room "C" downstairs. It is the next building west of the Hill Farms State Office building. The meetings start promptly at 7:30 pm.

FOX CITIES AMATEUR RADIO CLUB

Third Mon. - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886.

GREATER MILWAUKEE DX ASSOCIATION

Fourth Mon. of the month at 7:30 p.m. Contact Jerry Scherkenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB

Second Thur. 7:30 pm - Media Services area of the J. M. Science Building at St. Norbert College in DePere.

GREEN FOX AMATEUR RADIO CLUB

Third Mon. - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINES RADIO AMATEURS

Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.

Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSN

The meeting schedule for 1991 is as follows: Nov. 11.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed.

General meeting: Second Wed.

Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

MEMONONEE FALLS AMATEUR RADIO CLUB

Last Tue. - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB

Last Thursday, Wauwatosa Savings and Loan (lower level) at 7500 W. State St. in Wauwatosa. No meetings in July, August and December. Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB

4th Tue. - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonee, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)

Third Tue.. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhineland, WI. Talk-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB

Second Wed. - 7:30 p.m. - Grafton Multiturpose Senior Center.

QCWA - WISCONSIN CHAPTER #55

Contact Robert Shady, KB9XR, Treasurer, 905 E. Doty Place, Milwaukee, WI, 53207. For information about meeting dates or joining QCWA

## Badger State Smoke Signals

### Amateur Radio Education and Information

**CHAIRMAN:** Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

**EDITOR:** Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

**TREASURER:** Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

**CONTRIBUTING AUTHOR:** Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

### Subscriptions

1 year	(12 issues)	\$9.75
2 years	(24 issues)	\$18.00
3 years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

### When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For

Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

**QOWA - SOUTHEAST WISCONSIN CHAPTER #162**  
Meets third Mon. monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

**RACINE MEGACYCLE CLUB**  
Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

**RIVERLAND AMATEUR RADIO CLUB**  
First Tue. - 7:00 p.m. - Onalaska Community Center, Onalaska WI.

**ROCK RIVER RADIO CLUB**  
Monthly - first Tue. - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Ju-neau, WI.  
ARES Net: 146.04/146.64 Mon.s at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

**SHEBOYGAN COUNTY AMATEUR RADIO CLUB**  
Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

**SOUTH MILWAUKEE AMATEUR RADIO CLUB**  
First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

**TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD**  
Usually the 2nd Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wed. nights at 8:30 PM on 147.75/15. For info contact: Rolland Walty, W9LEE, W4117 Hwy. 102, Westboro, WI 54490. (715) 427-3492

**TRI-COUNTY AMATEUR RADIO CLUB**  
Sun. of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

**WASHINGTON COUNTY AMATEUR RADIO CLUB**  
Second Thursday, 7:30 p.m., Washington County Court House. Net on Thursdays at 7:30 p.m. on 146.73.

**WATERTOWN AMATEUR RADIO CLUB**  
First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

**WAUPACA AMATEUR RADIO CLUB**  
First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca.  
"CQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

**WEST ALLIS RADIO AMATEUR CLUB**  
Second Tue. - 8:00 p.m. - St. Peters Episcopal Church, 7929 Lincoln Ave. Entrance is at rear of building on alley.

**WISCONSIN ASSOCIATION OF REPEATERS**  
Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

**WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)**  
First Tue. - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

**YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)**  
Days rotate: Scheduled meeting dates:  
Tue. Jan. 12, Wed. Feb. 17, Thu. Mar. 17,  
Tue. Apr. 13, Wed. May 12, Thu. Jun. 17,  
Tue. Jul. 13, Wed. Aug. 18, Thu. Sep. 16,  
Tue. Oct. 12, Wed. Nov. 17, Thu. Dec. 12.  
All meetings, (Except January 12 see YTARC meeting minutes), at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

Let Badger State Smoke Signals and others know your club's meeting dates.

## The Test Point



### Amateur Radio Examination Locations and Schedules in the Wisconsin Area

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

January 9, 1993	Madison, WI
January 9, 1993	Marshfield, WI
January 9, 1993	Oak Forest, IL
January 23, 1993	Appleton, WI
January 14, 1993	Apple Valley, MN
January 16, 1993	Milwaukee, WI (BE)
January 16, 1993	Eau Claire, WI
January 16, 1993	N Branch, MN
January 17, 1993	Des Moines, IA
January 23, 1993	St. Paul Park, MN
February 11, 1993	Apple Valley, MN
February 12, 1993	Blaine, MN
February 13, 1993	Madison, WI
February 13, 1993	River Falls, WI
February 13, 1993	Oak Forest, IL
February 13, 1993	Dixon, IL
February 17, 1993	Sheboygan, WI
February 20, 1993	Milwaukee, WI (BE)
March 6, 1993	Dubuque, IA
March 11, 1993	Apple Valley, MN
March 13, 1993	Marshfield, WI
March 13, 1993	Madison, WI
March 13, 1993	River Falls, WI
March 13, 1993	Oak Forest, IL
March 13, 1993	N Branch, MN
March 20, 1993	Milwaukee, WI (BE)
March 20, 1993	Appleton, WI
March 27, 1993	Menomonie, WI
April 10, 1993	Madison, WI
April 17, 1993	Eau Claire, WI
April 17, 1993	Milwaukee, WI (BE)
April 17, 1993	Ozaukee, WI (BE)
May 1, 1993	(Hamfest)
May 8, 1993	Marshfield, WI
May 8, 1993	Manitowoc, WI
	(Hamfest)
May 8, 1993	Madison, WI
June 12, 1993	Appleton, WI
June 12, 1993	Dubuque, IA
July 10, 1993	Marshfield, WI
August 9, 1993	Appleton
August 21, 1993	Dubuque, IA
September 11, 1993	Marshfield, WI
November 6, 1993	Menomonie, WI
November 13, 1993	Marshfield, WI
November 7, 1993	Kaukauna, WI
	(Hamfest)
November 20, 1993	Dubuque, IA

Monthly, Third Tue. Milwaukee, WI (MRAC)  
Monthly, Last Sat. Milwaukee, WI (MRAC)  
Monthly, First Sat. Racine, WI  
(except January, July & August)  
Monthly, Second Sat. Madison, WI  
Monthly, Third Sat. Loves Park, IL  
Monthly, Last Sat. Tomahawk, WI  
(January thru October only)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

#### GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 29¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.60 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A

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copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

**MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)**  
THIRD TUESDAY DATES: At 6:30 p.m. at church, 11709 West Cleveland Ave., West Allis, WI.

LAST SATURDAY DATES: At 8:30 a.m. in the lower level of Savings and Loan, 7500 W. State St., Wauwatosa, WI.

SECOND SATURDAY DATES (SWAT team): 1:00 p.m. at Wauwatosa Savings and Loan, 6560 S. 27th St., Oak Creek, WI.

For Additional Information Contact: Jack Krause, W9JK, 1737 N. 116th St., Wauwatosa, WI 53226. (414) 774-6999 or Les Peterson, W9YCV, 9741 W. Howard Ave., Greenfield, WI 53228. (414) 321-4745.

Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

#### BADGER EXAMINERS (BE) - MILWAUKEE

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. CW waiver forms are available. Please send a request with an SASE prior to taking an exam, so it is ready when attending the session. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

VE exams are held in Madison every second Saturday morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate. Other exams are held in Milwaukee every Third Tues. evening and third Sat. Afternoon.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.40, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark NZ9B

#### EAU CLAIRE, WI

Held 9:00 a.m. to 12:00 noon at St. Olat's School on the North Lane in Eau Claire, WI., near the airport. Contact Carl Searing, W9NW. (715) 834-1303.

#### MARSHFIELD, WISCONSIN

Sponsored by the Marshfield Area ARS. Second Saturday every other month, at St. Joseph Hospital, School of Nursing entrance. Room 124. St. Joseph Ave., Marshfield, WI. Walk-ins Welcome. Contact Walter Friant, WBOKIN, 2310 Wallonnie Dr., Marshfield, WI 54449. (715) 387-3870

#### RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

(continued on page 15)

## Wisconsin Nets Association Ltd.

Rob Hummel, WA9ZTY, Secretary • 202 Midvale Drive • Marshall, WI 53559

### Section Manager's Notes

Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221



Exams: February 2 Racine, February 9 Madison, February 13 River Falls.

Every Monday and Thursday at 9 p.m. the 50.16 MHz net meets for some interesting activities; check in this week.

West Allis RAC program February 9th will be the spectrum analyzer by NS9P and will have their travelling grab box door prize.

New Green Bay Mike and Key Club officers: Pres. KE9AS; V.P. N9LSX; Treas. KA9VRK; Sec'y KB9AMM.

My sister Nancy and her husband Sam, WB9-LAB, of Waukesha, were killed when the small plane they were flying hit some trees and crashed close to Capitol Airport near Brookfield on November 21, 1992. Together, Sam and Nancy had over 2,600 skydiving jumps as instructors with hardly an

### Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

injury. Both were pilots; Nancy had the instrument rating and was nearing completion of tasks required to be a flight instructor for the Civil Air Patrol. They will be missed.

Other Silent Keys: N9MNL (Schofield), N9GJI (Iola), and W9MJ (ex-W9ZHE, Waukesha). □

## League Supports New "Business Rule"; Decries Media's Attempt to Broaden

The American Radio Relay League has filed reply comments continuing to support an FCC proposal to revise their rules on permissible communications by amateurs - the "Business Communications Rule."

The League said that other commenters seeking fine tuning of the proposed new rules were asking for an unnecessary rigidity in amateur rules. The ARRL also suggested that a request by commercial interests to relax the use of Amateur Radio in ordinary news gathering, a request previously denied, be so denied once again.

In January, 1992, the League informally submitted a proposal for the changes in the rules to the Commission, changes that would restate certain sections of Part 97.113 in order to enable amateurs to continue, unfettered, to perform public service work. The League did not submit a formal proposal for rule making in the matter. The FCC in April, 1992, assigned the proposal RM-7895, and in June opened PR Docket 92-136.

In its reply comments filed December 1, 1992, the League said that trying to be specific in a "content regulation" such as FCC Rule 97.113 was impossible. For example, one commenter questioned whether an amateur employed in government could violate the rule by providing public service communications benefitting public safety.

The League said that prohibiting communications on behalf of an employer is "based on the need to isolate the amateur's participation in amateur communications from the means by which the amateur makes a living." This serves to free amateurs from pressure from an employer to provide communications.

"Performing amateur public service communications is as acceptable for a public servant as for anyone else in similar circumstances," the League said.

Yet the League agreed that some regulatory guidance would be needed - mainly, defining what

Please turn to page 9

### Balloon Story Had Holes; the Balloon and Package Did Not!

In the story about the most recent balloon-carried Amateur Radio flight launched by the Wisconsin Amateur Radio Balloon Association, a typo reared its ugly head that was, at the very least, confusing. At most, the nasty little typo made it appear that the package had been shot full of holes by two goose hunters. *Not!*

The confusing portion said, in part, "....It's a good thing we shot first...." Here is what the line in the story should have said: "It's a good thing we *didn't* shoot first."

We apologize for the error.  
And we thank the hunters.

- Editor

## Correspondence

....from our readers



A GOODBYE TO BOB DUNN, N9GJI

November 16, 1992

Hi, Ken, K9EN:

Back in the late 70s and early 80s, I had a book, *Verse by the Side of the Road*. It contained the limericks from the now-extinct Burma-Shave signs we used to read along the highways. I thought them somewhat amusing, so I'd read one or two on the morning weather net. That is, whenever there was a lull in the traffic.

This amused some and irritated others, but it brought out the hidden poet in several of the regulars. Lew, K9JPS, Bill, W9ZBD, WB9YPZ, and, of course, Bob Dunn, N9GJI. His call in those days was KA9CPA. These all responded in verse of their own which showed a lot more talent than Burma-Shave ever did. We had a lot of fun with it for several months.

Herb Stecker, W9ZGQ, was the weather liaison in those days. When he passed away, Bob wrote a verse which appeared in the *WNA Bulletin*. The words struck a special chord in me, so I saved it. Now that Bob has passed away, I find that the verse is appropriate for him too, with the last two lines altered to fit.

*He no longer modulates seventy-five  
Or twenty, or ten, or two meters live.  
His key has gone silent, his signal is stilled  
Our hearts we find heavy, but memory filled.*

*For he knew a spade and called it by name  
Cutting right to the core in the ragchew game.  
His slow measured drawl brought us many a smile  
As his keen wit emerged, our thoughts to beguile.*

*He put zip in the net each time he checked in  
With his slow-fuse approach, and I'm sure he'd a-grin  
As he shared his thoughts and gathered the weather  
Keeping us smiling, but always together.*

*We treasure these memories, try to retain  
Them firm in our mind's eye, make them remain.  
To us he was special, we wish him goodbye  
He with the call En Nine Gee Jay Eye.*

- Jim Merrill, W9AYK, Net Manager  
Badger Weather Net

### ARMY MARS SEEKS WISCONSIN MEMBERS

11 November 1992

Attention: All Amateur Radio operators in Wisconsin.

Wisconsin Army MARS (Military Affiliate Radio System) is part of an international pseudo-military organization of trained civilian radio operators to aid and assist our country in times of emergency. As part of our training, we do handle third party traffic to people serving in the military throughout the world.

Please turn to page 8

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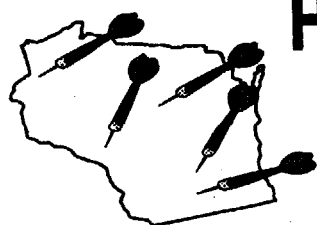
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## HERE and THERE

### Exam Fees to Go Up

The cost of getting a ham license is going up again in 1993. As announced by the FCC, the maximum reimbursement for volunteer examiner tests in 1993 will be \$5.60, up from \$5.45 in 1992. The ARRL/VEC will charge the full \$5.60 for examinations for Technician or higher class licenses in 1993.

- Westlink Report, 11/27/92

### Ban on Cellular Scanners Signed

President George Bush has signed into law legislation that blocks the sale of radio equipment used to eavesdrop on cellular telephone calls. It directs the FCC to withhold its equipment authorization for any radio scanner that can receive cellular frequencies or that can easily be modified to receive such frequencies. The equipment cannot be sold without FCC authorization.

In about a year, the law will also make it illegal to manufacture this type of equipment in the United States or import any such equipment made elsewhere.

- N7EP in Westlink Report, 12/10/92

### Latest FCC Call Signs

The following is a list of the FCC's most recently issued call signs as of December 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0KS	KG0BY	N0UPN	KB0KUW
1	AA1EM	KD1LK	N1NUA	KB1AMB
2	AA2LN	KF2LH	N2SXD	KB2PPA
3	AA3CK	KE3FN	N3NQE	KB3AKE
4	AC4XF	KQ4JF	++	KD4UHQ
5	AB5JD	KJ5GJ	++	KB5WCU
6	AB6PC	KN6DF	++	KD6PFZ
7	AA7SL	KI7IA	++	KB7QWZ
8	AA8JG	KF8XY	N8WEJ	KB8OKK
9	AA9FG	KF9MI	N9RLL	KB9IFW
Hawaii	++	AH6ME	WH6JQ	WH6CQA
Alaska	++	AL7ON	WL7GN	WL7CGF
PR	++	KP4UL	++	WP4LOF

++ All call signs in this group have been issued in this area.

- ARRL Bulletin 113, 12/16/92

### CB Gunfight Ends in Mistrial

A mistrial has been declared in the case of a Porterville, California CB operator on charges that he murdered another CBer!

Prosecutors allege that Claude Horner shot and killed 26-year-old Kenneth McGee after an on-the-air argument that took place over their CB rigs. Witnesses told the deadlocked jury that McGee routinely cursed and challenged others over his CB radio. The incident that left McGee dead took place

## 1993 Wisconsin QSO Party

1800Z March 14 through  
0100Z March 15

Rules, complete information, and an entry form/multiplier list will be published in the February, 1993 issue of *Badger State Smoke Signals*.

*The Wisconsin QSO Party is sponsored annually by the West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201.*

in front of his home, where he exchanged gunfire with Horner. Horner was also critically wounded, but survived to face the murder charge.

A new trial for Horner has been scheduled to begin January 26th in Tulare County Superior Court.

- Westlink Report, 12/10/92

### Comments of VECs Cited in Foreign Licensing Plan

The ARRL has filed reply comments on an FCC proposal to add another way for foreign visitors to be granted temporary operating permission while in the United States.

On Nov. 30, the League reiterated its support for the goal of the proposal, in PR Docket 92-167, to make it easier for foreigners licensed in their own countries to operate temporarily in the U.S., while restating its belief that other, significantly better means of accomplishing those goals exist.

The League noted that comments from several volunteer examiner coordinators concurred that determining the bona fides of visiting amateurs' licenses written in languages other than English, as proposed by the FCC, would be extremely difficult for volunteer examiners.

The League also cited comments from several American amateurs with experience operating from other countries, pointing out that the real issue is how the changes proposed by the FCC might be perceived by foreign amateurs, and how such a program might affect the way U.S. amateurs are treated in their licensing requests in other countries.

Other countries could conceivably turn the tables on American amateurs, requiring the passing of an examination in their own language (possibly not in English).

Such restrictions could, the League said, stifle international Amateur Radio operation by discouraging reciprocal operating agreements, "which is a result the Commission should absolutely avoid."

The League's reply comments stressed once again its belief that having the U.S. join the European Conference of Postal and Telecommunications Administrations (CEPT) Amateur Radio licensing program would be a better first step toward an eventual "international endorsement" on amateur licenses.

- The ARRL Letter, 12/10/92

## Silent Key

DON BAKER, NB9J, passed away on Tuesday, December 1, 1992, at Appleton Medical Center following a fatal heart attack. He was 60 years old.

Don was a very active member of the Neenah-Menasha Amateur Radio Club, which is now the Fox Cities Amateur Radio Club. He was a past president of the Fox Cities ARC.

Don brought new lifeblood to the club by offering his service in all ways. He and his son-in-law, Larry Siebers, KD9IA, were the first volunteer examiners for the area, and helped to expand the VE team into what it is today.

Don started the Experimental Aircraft Association Convention special event station, and even designed the "warbird" certificate that is sent as a QSL for the event.

He was, to date, the club's only hamfest organizer, bettering the event every year despite bad luck with the weatherman.

Don's willingness to help with any public service event helped to recruit many new members to the FCARC. He encouraged new hams to better themselves, and was an "Elmer" to most.

He was active in Field Day and in ARES, and was an Assistant Emergency Coordinator. He was the inter-club contact person with many of the other clubs in the area. He helped organize social events for the clubs.

Don was a trained Red Cross volunteer, and served in every disaster that the Outagamie Chapter was involved with in the last number of years.

While he was in the Navy, Don was with the hurricane hunters, and often talked of his experiences of flying "into the eye" of the hurricane. He was a high-speed CW man, and credited the Navy for his proficiency with the Morse code.

Don's motto was: "How can I help?" He never held a grudge, and epitomized the positive attitude that we all admire and should have.

Don gave of himself freely, and anyone could tell that it came from the heart. His service to any good cause will be missed, along with his smiling face. Personally, I feel that Don was everyone's best friend, and I, but for a short time, am honored to have been his friend.

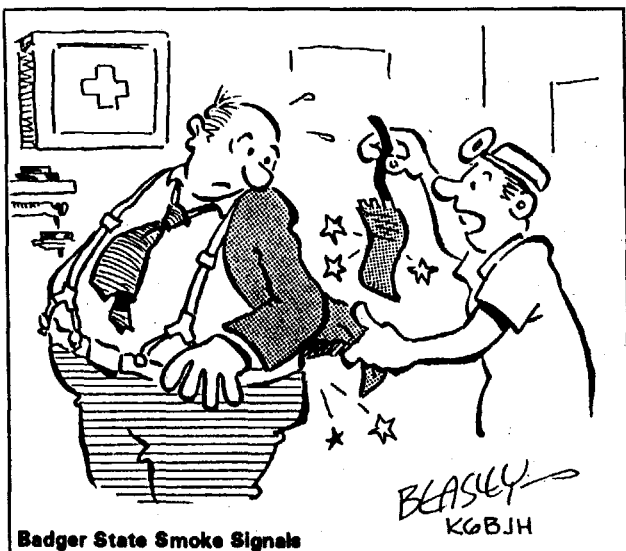
- Wayne Pennings, WD9FLJ

### China to Permit Individual Stations

IARU Region 3 advises that China has decided to permit operation by individual amateur stations beginning December 22. Prefixes will be BA, BD, and BG.

The announcement results from years of patient effort by the Chinese Radio Sports Association.

- ARRL Special Bulletin 45, 12/18/92



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# B.A.R.C., the Beargrease Amateur Radio Coalition

By Loren Kuhnly, KA0TMW  
5119 Samuelson Road, Duluth, MN 55811-9705

In Northeastern Minnesota, from January 10 through January 17, 1993, a series of three sled dog races will be held. The John Beargrease 500, 130, and 100 will be run over some of Minnesota's roughest and toughest terrain.

The races names are in honor of John Beargrease, a Chippewa Indian who lived in Beaver Bay, Minnesota, and carried mail between Two Harbors and Grand Marais from 1887 until 1900. In the winter, he travelled over hand-cleared trails or out on the treacherous Lake Superior ice.

In the dead of night, in all weather and usually far from the fireplace, the mushers race around the clock. Amateur Radio operators are there, providing a safety net. Hams keep track of musher locations, estimate arrival times, and keep veterinarians in touch with each other. When a team is overdue, we are the first to know and start the initial search.

The John Beargrease 500 is one of the longest races in the lower 48 states. Alaskan teams have been surprised by the difficulty of this race. The course is so demanding that often more than one-half of the teams will not complete the race. This will be the 10th Beargrease, and yet no musher has won the race twice. This will be the ninth year that Amateur Radio has been involved.

The races all differ slightly. Here is a brief rundown on starting and finishing information.

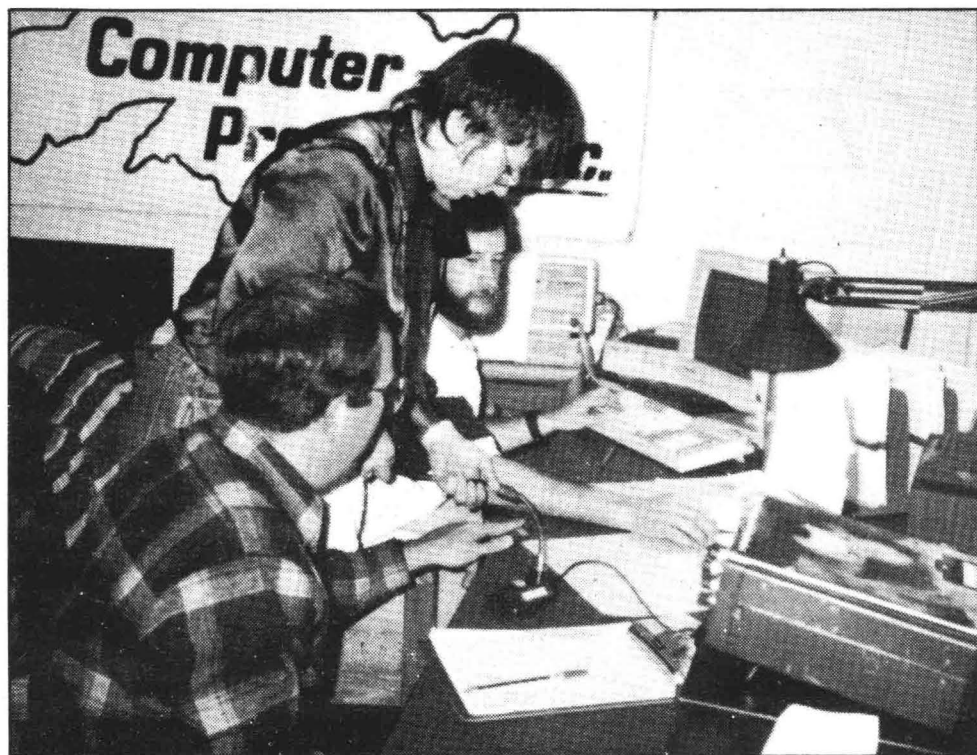
The JBG 500 starts on Sunday, January 10, 1993, at 1500 CST. It runs from Duluth up the north shore to Grand Portage, and then returns back down the shore to Duluth. The 500 has a cutoff time of 1700 CST on Friday, January 15. Including the start and finish locations, there are fourteen checkpoints. Some checkpoints are used on both upbound and downbound legs. Net Control will run non-stop, becoming once again the third-longest yearly-run Net Control event.

The JBG 130 and 100 both start from Grand Marais on Saturday, January 16, 1993. Starting at 1100 CST, the destination for the 130 is Two Harbors and the 100 ends in Beaver Bay.

Believe me, our efforts don't make it into the news, but every year there has been at least one musher whom we have helped by searching or by some other means.

From the mushers and handlers to the checkpoint volunteers, sled dog racing is an interesting sport that attracts some of the nicest people you would want to meet.

This communication event is one of the best emergency communications experiences you can find. There are several factors that make this ideal training, including the races' duration, the time of year, the distances, and the number of hams involved.



The center of Amateur Radio activity for the Beargrease races is net control, where the operators doggedly keep track of the mushers and provide assistance, including searchers for lost mushers, when needed. Read the story to find out how you can help.  
- Photo courtesy Loren Kuhnly/KA0TMW

As it gets close to race time, my check list starts forming in my mind: antenna, coax, radios, power supply, clothing, schedules, paper, pencils, flashlight, power cords, and so on.

Ham radio operators have provided health and welfare communications for the John Beargrease Sled Dog Marathon for several years. BARC has brought together many hams from different clubs and areas. Most BARC members got involved several years ago and have been back every year since. Each year, we update our BARC Communications Plan, which spells out what we as hams do, why we do it, and what we can't do with regard to FCC Rules Part 97.113. This plan has been reviewed by Bob MacNamara at the FCC. Our plan is also used as a guide for this year's Iditarod Race in Alaska.

It takes a lot of hams as a team to work this event, and if a operating at a Road Crossing for a short time or taking on a checkpoint of your own for a time, or even running the center of action at Net Control sounds like fun, join us for the fun of this once-a-year event: The Beargrease! Interested? Contact Bruce, N0ELB, Checkpoint Chair, at (218) 724-4666, or myself (President of BARC) at (218) 729-5801.

We'll have a followup story on the 1993 Beargrease Race in an upcoming issue of Badger State Smoke Signals.  
- Editor

## After-Market Battery Packs: Let the Buyer Beware

By Ronald W. Hooker, K9WTF  
S68 W22700 National Avenue  
Big Bend, WI 53103

I purchased an after market nicad battery pack to have a spare for our dual band Kenwood HT's. The purchase was made at the Dayton Hamvention Sunday morning and we left that afternoon. Since the purchase was made from a firm that advertises in *QST*, I did not have much concern about the battery pack. So I did not try to slide it onto the battery pack.

That night after returning home I wanted to get the battery charged, and that is when I discovered the first problem. The wall charger included with these HT's requires that the battery pack be removed from the HT, and the charger head slid onto the pack. To my amazement, the charger would not slide completely onto the battery pack! On inspection, I found that this battery pack had extra plastic in the slide mechanism that was preventing it from being slid all the way on. It was late so I went no further that night.

The next evening I decided that before I removed this extra plastic from the battery pack that I should try putting the pack onto the HT. The battery pack only went a half to two-thirds of the

way onto the HT, and then stopped. It was very difficult to remove it. On examination, I could see that the top lip of the plastic was too thick on this battery pack. Using pin gauges, I later learned that it had about .008" too much material.

I called W & W Associates from whom I had purchased the pack and discussed this with them. They asked me to return the pack to them, with a letter describing the problems to them. I returned the pack to them along with a letter, and two drawings pointing out the problems to them. In about 10 days I received another battery pack from them. This one had the same problems on it as the one that I had returned to them!

I assumed that I was not going to get satisfaction by calling W & W again. So I took the pack to a coworker whom I knew likes a challenge in machining. He removed the extra material for me so that I now have a functional spare battery pack.

I have written another letter to W & W explaining the issues to them, and my dissatisfaction over this purchase from them. At this time I have not received any response back from them.

My advice to anyone purchasing an after market battery pack for their HT is: before you purchase the pack, try it on the HT while at the dealer's store.

*This article first was published in Hamtrix, newsletter of the West Allis Radio Amateur Club.*

## In Sympathy

We extend our sincere condolences to Rich Regent, K9GDF, and to his wife, Barb, N9-DIJ, on the death in the crash of a small airplane in November of Rich's sister Nancy and her husband Sam, WB9LAB. We hope that as time passes the sorrow will diminish and that good memories will help fill the emptiness.

- The Badger State Smoke Signals staff:  
Ken, K9EN; Jim, WB9UQT; and Jim, K9ZZ



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# Amateurs' Needs Outlined to Department of Commerce by ARRL

Continued from front page

teur ranks to the current level of more than 580,000.

Moving to frequency usage, the League pointed out that amateurs depend on having a number of relatively small frequency allocations scattered throughout the spectrum, to enable them to find the most effective slot for their desired communications, given their low transmitter powers. Also noted was the tendency of amateurs to move to ever-higher frequencies when lower segments become saturated, "not unlike the situation with other radio services."

The starting point for the League's response was a position paper prepared by the Administrative Council of the International Amateur Radio Union (IARU) prior to WARC-92. The IARU paper identified worldwide amateur spectrum needs.

Here are the specific needs of radio amateurs

cited by the League in its comments:

- A new, shared allocation in the vicinity of 190 kHz (a new LF allocation, for experimentation);
- Retention of 1.8-2.0 MHz (amateurs' only MF band);
- A common worldwide exclusive allocation of at least 300 kHz in the 3.5-4 MHz band, and retention of the additional shared allocations in Regions 2 and 3;
- A new, shared allocation in the vicinity of 5 MHz;
- A 300-kHz wide exclusive worldwide allocation in the vicinity of 7 MHz;
- Expansion of the 30-meter band from its current, secondary 10.100-10.150 MHz to a primary allocation of 250 kHz bandwidth;
- A return to the pre-1947 20-meter allocation of 14.0 to 14.4 MHz;
- An exclusive allocation of 250 kHz at 18

MHz;

- Retention of the entire current 15-meter band;
- Widening the current 12-meter band to 250 kHz;
- Retention of the current 10-meter band;
- A "narrow band of frequencies between 30 and 50 MHz";
- Retention of the current 6-meter band and some allocation in areas where it is not now available (primarily in Region 1);
- Retention of 144-146 MHz as an exclusive worldwide allocation and modifications and expansions elsewhere in the range 144-148 MHz;
- Retention of 222-225 MHz and access to part of the band 216-220 MHz;
- Continued or upgraded access at 420, 902, 1240, 2300, 3300, 5650 MHz, and at 10 and 24 GHz for both terrestrial and satellite uses.

"Any modifications in Government primary allocations should either leave the amateur secondary allocations unchanged or provide for alternative spectrum," the League said.

- The ARRL Letter, 11/24/92

## FCC Proposes Changes in 222 and 1240 MHz Bands

The Federal Communications Commission (FCC) has proposed several changes in the 222 and 1240 MHz amateur bands. The first would establish a small new subband in the 222-MHz band, where repeater stations would be prohibited in order to enhance weak-signal communications and experimentation.

The second proposal would allow Novice Class licensees access to the entire 222-225 MHz amateur band.

The third proposal would allow Novice Class operators to be licensees and control operators of repeaters in the 222-225 MHz band and in the 1270-1295 MHz Novice subband on the 1240-1300 MHz band.

The "weak signal" proposal was made by the American Radio Relay League (ARRL) in November, 1991, following the reassignment of 220-222 MHz to commercial interests. The League suggested a 150-kHz subband at 222.0-222.15 MHz for such weak signal work.

The ARRL, at that time, also requested expansion of Novice operating privileges to include the entire 222-MHz band, in order to establish a com-

mon meeting ground where Novices could sample other modes of amateur operation in addition to repeaters.

The proposed changes in Novice repeater licensee and control operator privileges, which the ARRL did *not* seek, came as the result of petitioner Michael C. Trahos, who argued that the amateur service should follow the General Mobile Radio Service and the Private Land Mobile Radio Services, where user licensees may also be licensees of repeaters without being required to pass any additional examination. The ARRL has not as yet adopted a position on this proposal.

The Commission said it believed there was merit in the petitions of both the ARRL and Trahos, and asked for comments on the proposed rule changes, in Docket 92-289. The comment deadline is February 23, 1993. The reply comment deadline is March 23, 1993. For more information, see January, 1992 *QST*, page 73, and April, 1992 *QST*, page 62.

- ARRL Bulletin 111, 12/7/92  
and ARRL Bulletin 114, 12/16/92

## Is Your Club "in the Closet?"

If your club is one which depends on only word of mouth to publicize its existence, it's time to open the closet door! While it may be true that person-to-person conversation is effective at publicizing businesses and organizations, there is a *much* better way. Your classes will gain students and your club will gain members. And your club will be favorably "pitched" where it should be - to the general public.

All it takes is a short news release, a week before the meeting date, to your local media outlets: print, radio, and, where applicable, TV. Remember the basics: who, what, why, when, where, and, sometimes, how. Remember to mention the after-meeting program; often these programs will attract people who might not otherwise care to attend.

Mike Schoenfuss, N9GHZ, has written many excellent articles which have been published in his area; perhaps he'd send you a few examples. If you do ask him, please send him an SASE. Getting good media is *not* too difficult, and it will "pay" great dividends!

- Jim Romelfanger, K9ZZ, Public Info Coordinator, WI Section

## Activating Half of Wisconsin's Counties- During One Wisconsin QSO Party



A popular part of the annual Wisconsin QSO Party is activating counties, some rare, some less so. Mobiles carefully plan routes to work from as many counties as possible. The team above (at left, Frank Olah, WA9VZP, and, at right, Gary Pratt, WB9ECO) worked from 35 counties during the 1975 party, then sponsored by the Wisconsin Nets Association. Planning routes and fighting traffic gets a *lot* easier when the operation is from a 4-seat Cessna! The antenna was a 65-foot wire, with a funnel at the end for stabilization. The crew had to cross Pepin County twice to give it to all wanting it; it's not very wide south to north (or north to south, either!). Gary's father, Dick, piloted, while Bob Donner, from the U-W/Baraboo campus, did the navigating chores. Gary is back in Wisconsin, living near Milwaukee with his wife and two children. A Baraboo native, He was first licensed at age 10, following the first Novice classes given by the Yellow Thunder Amateur Radio Club. Following his graduation from the UW-Madison with a degree in Electrical Engineering, he has lived and worked in San Francisco and Dallas/Fort Worth, Texas.

- Photo courtesy Yellow Thunder Amateur Radio Club

## A Great Picture, by Jupiter!



Here is what it looks like where no men have gone before.. not yet, anyway. This photo of the southern hemisphere of Jupiter was obtained by Voyager 2 on June 25, 1979, at a distance of eight million miles. Seen in front of the turbulent clouds of the planet is Io, the innermost of the large Galilean satellites of the planet. Io is the most volcanically active planetary body known in the solar system, with continuous eruptions much larger than that of any which take place on Earth. Red, orange, and yellow colors seen on Io are thought to be deposits of sulfur and sulfur compounds produced in these eruptions. The smallest features that can be distinguished in this picture are about 125 miles across.

- NASA photo



# EarthBreeze: Latest WARBA Project Fairly Simple, Very Interesting

By Steve Loeffler, WB9ZRE

124 W. Oshkosh Street  
Ripon, WI 54971

The W.A.R.B.A. "EarthBreeze" project is patterned after the technological aspects for the method of flight of the famous "Earthwinds". It will consist of a "lift" balloon above the payload containing a lighter-than-air gas and an "anchor" balloon hanging below the payload filled with slightly pressurized surface atmosphere.

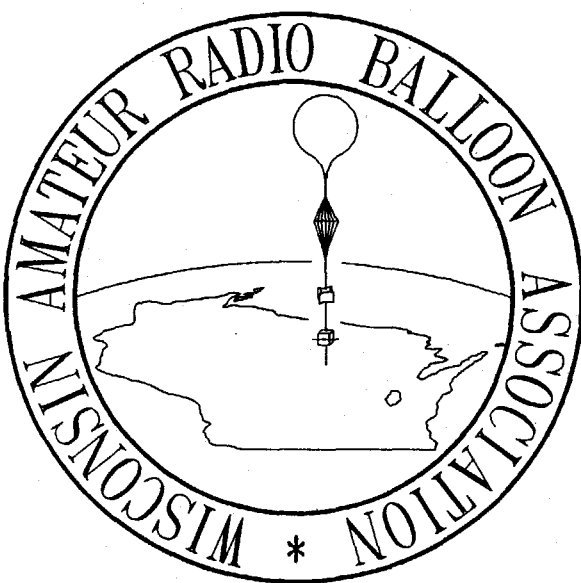
As the system rises into thinner atmosphere, the upper balloon loses its lift capacity, and the "anchor" balloon becomes heavier in relation to the surrounding outside atmosphere. It is possible to calculate the gas pressure relationships where the lift and anchor balloons can cancel each other's effects, causing the system to "park" at a specified altitude. (Due to solar heating, the system will actually float between two altitudes). The target altitude of the W.A.R.B.A. flight during solar exposure is 80,000 feet, descending to 70,000 feet during hours of darkness.

As this is a long duration flight attempt, we do not anticipate that the package will be recovered, however, a message in English, Spanish, German and Chinese will be included on the flight requesting any finder to mail the card back to W.A.R.B.A. along with details as to who and where it was found.

In order to keep "EarthBreeze" within W.A.R.B.A.'s meager budget, the package was kept simple, lightweight and inexpensive. The payload compartment, at the center of the package, is an aluminum shell painted fluorescent red. The two outer modules are sealed flotation devices that will enable the package to float. The payload consists of two "D" cell lithium batteries providing 6 volts at 10 AH, a 5 volt voltage regulator, a 50 mW transmitter transmitting a continuously looping CW message, and a barometer modified to adjust the speed of the continuous code transmission in direct relationship to package altitude. An externally accessed switch provides convenient system activation and atmospheric equilibrium for the barometer.

The transmitter can remain continuously active for more than a month. The total weight of the 4" x 7" x 5" package, including antennas and support cord between the two balloons is exactly one pound!

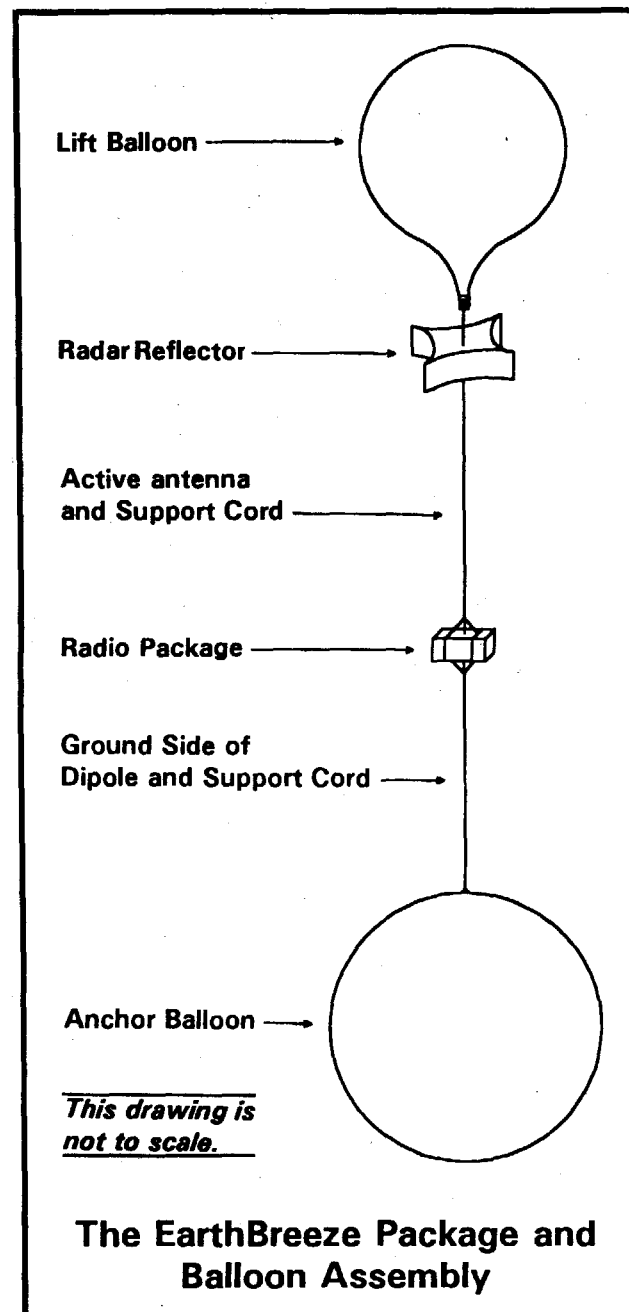
Obviously, the most critical factor in the flight will be in precisely filling the two balloons with



their respective gases in order to "park" the system at the proper altitude. In order to perform this delicate measurement, we have been fortunate in obtaining the loan of an extremely accurate gas flowmeter. Once "EarthBreeze" parks at its design altitude, the system will float eastward, over the northern Atlantic, northern Europe, the Russian republics, northern Pacific, and finally again over North America. A complete circuit will take between 10 days and 4 weeks depending on the finalized launch date. (We are currently anticipating the launch to take place in mid-January. The seasonal cut-off date for the flight is January 31 when the high altitude wind patterns will prevent a successful global flight).

At the moment, we are attempting to raise funds for the final component in the system - the lower "anchor" balloon unit. In order to complete "EarthBreeze", we must enclose the lower balloon in a restriction bag to allow adequate pressurization. The cost of the necessary 1/2 oz./s. yd. rip-stop nylon material is approximately \$80.00. When the material is obtained and sewed into the proper configuration, the flight will follow shortly thereafter. This is the only obstacle in determining a launch date).

Everyone can participate in the flight by listening for and tracking the transmitter signal on 14.317 Mhz. To qualify for a photo QSL card commemorating the flight, accurately time (within 1/10 of a second) the following segment of the CW transmission: WB9SBD/BCN BALLOON PSE QSL



include the date and time of receipt and a beam heading (if possible) and send a QSL with a self-addressed, stamped envelope to: Wisconsin Amateur Radio Balloon Association, Route 1, Box 235A, Hillsboro, Wisconsin 54634.

The "EarthBreeze" payload circuitry was designed by Joe Mayenschein, WB9SBD. Package design and construction was done by Steve Loeffler, WB9ZRE.

W.A.R.B.A. would like to extend special thanks to Steve Look, KA9SZW, for the donation of the digital CW ID circuit and to Pete Ives, AA9AD, for donating the barometer. □

## Correspondence

...from our readers



Continued from page 4

At the present time, we do not have representation from all areas of Wisconsin. It would be appreciated if this call for help would be read at your club meetings and/or scheduled nets.

The following is a statement of our mission:

Army MARS is established to provide emergency and auxiliary radio communications as an adjunct to or extension of normal military communication services. These include, but are not limited, to:

- Emergency communications support of military and civil relief operations in natural or man-made disasters as directed by higher authority.
- Emergency communications support for civil defense activities.
- Auxiliary communications between Army area installations when normal communications are disrupted.
- Creation of interest and furnishing a means of training members in military communications procedures and techniques, thus providing a potential reserve of trained personnel in military communication procedures when needed.

e. World-wide morale, official record, and voice communication for Armed Forces and authorized U.S. Government personnel.

We must not only look at our emergency missions, but other missions that may help establish our existence in the community as reliable communication asset.

If you want to broaden your horizon in communication, accept the challenge and become part of a discipline organization, and assist those that defend our national interest, please contact Mr. Richard C. Trempe at 2818 Pine Ridge Blvd., Wausau, WI 54401, or call him at (715) 848-8095. You may also contact any of the following personnel:

Mr. Alan E. Murray, 600 7th St., Hudson, WI 54016, telephone (715) 386-5333;

Mr. Jonathan E. Case, 2113 W. Mead St., Eau Claire, WI 54703, telephone (715) 834-1540;

Mr. Richard C. Peitso, Rt. 5 Box 243, River Falls, WI 54022, telephone (715) 359-4977;

Mr. Gustav C. Bonow, 961 Wisconsin River Dr., Port Edwards, WI 54469, telephone (715) 887-3962; or

Mr. John T. McNamara, Rt. 3 Box 3490, Washburn, WI 54891, telephone (715) 373-5863.

Thank you!

- Richard C. Trempe, AA5WI Wisconsin  
MARS State Director

## Military Affiliate Radio System Active from Somalia

MARS, the Military Affiliate Radio System, is currently handling holiday and greetings messages from troops in Somalia to families back home in the US. A Department of Defense-sponsored program, MARS is comprised of selected amateurs who are specifically authorized by the military to meet on reserved frequencies just outside the amateur bands to handle traffic.

At present, it is difficult to send messages to Somali-based troops as soldiers are constantly moving. However, messages are being sent from troops there to MARS operators here in the US for relay and delivery to addressees.

MARS operators often need assistance from the National Traffic System in obtaining outlets for "MARSgrams." NTS operators willing to assist in this effort should contact their section's Field Organization leadership for direction, and information on local MARS efforts.

ARRL HQ staff will be sending a list of MARS contacts by state to all Section Traffic Managers shortly. ARRL is also sending a list of the nation's STMs to MARS contacts for coordination.

The amateur community can take great pride in the service it renders to the military and their families through MARS and NTS channels.

For a brochure on the MARS program, contact ARRL HQ, 225 Main St., Newington CT 06111.



# ARRL Supports FCC Part 97.113 Rewrite

Continued from page 4

is meant by "regular." For example, in the case of amateurs providing communications for events held on a regular basis, the League suggested that weekly events would be considered "regular" and therefore not suitable for amateur support. Yet, annual events would be infrequent enough that amateurs could be the best providers of communications.

The League cited the annual Iditarod dog sled races in Alaska as an example; held every year, they are "regular," but are an event in which Amateur Radio has an "appropriate role," the League said, due to the long distances involved in the race, its duration, weather factors, and ensuring the safety of participants.

## Journalists Off Base

The League also noted that the National Association of Broadcasters (NAB) and the Radio-

Television News Directors Association (RTNDA) were jointly seeking once again to relax the restrictions against the use of Amateur Radio in day-to-day newsgathering, despite having been twice turned down by the Commission on that very subject. The League cited comments from an NAB member and former RTNDA board member (and a licensed amateur) who called the plan "self-serving" on the part of the broadcasters and pointed out dangers in amateurs being used regularly as news gatherers.

"It is common knowledge," the League said, "that the high costs of maintaining news departments at broadcast stations, both radio and television, have driven some stations to eliminate news departments altogether, and others to cut the budgets of news departments drastically. News directors and general managers are constantly looking for ways to cut costs wherever possible.

"Use of Amateur Radio feeds for 'important news events,' for example, would save a lot of money at broadcast stations. It would allow stations

to avoid sending [communications equipment trucks] to the site of events, thus to claim entitlement to use amateur radio at an 'important news event' where there is no other voice communications system available at the place where the information is originated," the League said.

The League believes that the proposed new rule for amateurs is "perfectly reasonable with respect to the rare occasions in which amateurs may participate in program production or newsgathering. Information 'directly related to the immediate safety of life or protection of life or property' can be provided (by amateurs) where no other means of communication is reasonably available."

But "the proposed NAB/RTNDA rule," the League said, "offers a thin veneer of legitimacy indeed. It is quite obviously an effort to usurp amateur radio frequencies and the services of amateur radio operators for commercial purposes.

"It is a plan which should be scuttled once and for all by the Commission," the League said.

The League requested that the FCC finalize its proposed restated rule as soon as possible.

- The ARRL Letter, 12/10/92

# St. Louis Science Center Hosting Soviet Space Exhibit

Many MIR space station watchers will remember last year that the station W5MIR was specifically set up in the lobby of the Fort Worth, TX Museum of Science and Technology to provide public relations support for the Soviet Space Exhibit. Included in many of the activities surrounding W5MIR were weekly chats with the cosmonauts aboard MIR and the re-broadcasting of these conversations over the museum's public address system so that the visitors to the Space Exhibit could also hear these conversations. Many a museum visitor was surprised to see how easy it was for radio amateurs to talk to the cosmonauts and how eager the cosmonauts were to talk to those at the museum.

This year, the Soviet Space Exhibit has moved to the St. Louis, MO Science Center, and again Amateur Radio is part of the Space Exhibit. The station call being used, most appropriately, is N0MIR and, according to Mike Koenig (N0PFF), the OSCAR station is quite impressive. Mike says that the station at the Science Center consists of an IC-970, the Hygain 218S antenna set, Kenpro AZ/EL rotators, two Compydyne 386 computers running Roy Welch's (W0SL) ORBITS III program and Antonio Franklin's InstantTrack V1.0b.

To help track the fast-moving MIR space station, the Kansas City Tracker was installed in one of the Compydyne computers to command the rotators. To help hear the cosmonauts, there are

SSB Electronics 2M and 70CM pre-amps and to ensure that N0MIR is heard, the station has a RF Concepts 2M/70CM power amplifier. When N0MIR is not being used to talk with the cosmonauts, the operators are demonstrating the many different modes, from the PACSATs to AO-13, with the Science Center visitors.

Roy Welch reports that on Saturday, 21-Nov-92, ex-Apollo 10 astronaut and now Air Force General Tom Stafford was present at the Space Exhibit and, through arrangements with Anatoly Solovyev (U6MIR), the Flight Commander of MIR, a former Apollo astronaut was able to chat with a "on-orbit" cosmonaut. During this pass, the local CBS and NBC television affiliates were present to record this event. Tom Stafford spoke in Russian to Anatoly (U6MIR).

On the next pass, a Russian translator and engineer who accompanies the Space Exhibit, worked Sergey Avdeyev (U7MIR), the MIR space station Flight Engineer. All of these QSOs were arranged through messages left on the packet radio BBS aboard MIR. After these MIR passes, General Stafford expressed a great interest in the satellite tracking software that radio amateurs are running. He also expressed an interest in AMSAT and in setting up an OSCAR satellite station at the Oklahoma City Space Museum. General Stafford is a native of Oklahoma.

N0PFF wishes to remind all radio amateurs that if you work N0MIR on any of the OSCAR satellites, you are eligible to receive a beautiful, special event station QSL card. Send your QSL cards with an enclosed s.a.s.e to W0SL's QTH, 908 Dutch Mill Dr., Manchester, MO 63011.

[The AMSAT News Service (ANS) would like to thank Mike Koenig (N0PFF) and Roy Welch (W0SL) for the information which went into this bulletin item.]

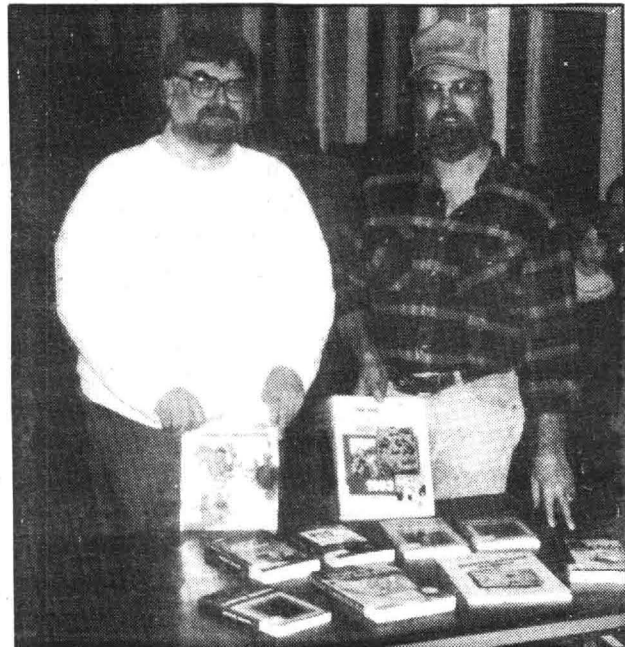
- AMSAT News Service Bulletin 354.02  
AMSAT Headquarters, Silver Spring, MD  
December 19, 1992

## New Type U.S. 29¢ Postage Stamp: No Lick, No Yick, Self Stick

If you care not for licking and sticking postage stamps, especially if you have to do that to large numbers of stamps at a time, you will be happy to know that you now can buy 29¢ stamps in self-adhesive form. A panel of the self-sticks costs \$5.00, for which you get \$4.93 worth of stamps (17 stamps). The other seven cents goes, presumably, to pay for the higher manufacturing/printing costs. They are well worth the price if you'd like to avoid that famous two-day period after a licking session during which you can't taste a thing.

- Editor

## Yellow Thunder ARC Book Review



The Baraboo Public Library recently contacted a member of the Yellow Thunder Amateur Radio Club, seeking advice about Amateur Radio books and publications. The club happily obliged, and the library added a number of current ARRL publications. Here, YTARC Secretary Raymond J. Matlosz, N9MLZ, Reedsburg, and President Bob Sauvin, WT9Q, Sauk City, review the books. The books are ARRL license manuals for Novice and No-Code Tech (*Now You're Talking*), as well as for General, Advanced and Extra Class. The books also include the *FCC Rule Book*, 1993 *ARRL Handbook*, *Novice Antenna Notebook*, *Your Gateway to Packet Radio*, and *Passport to World Band Radio*. Some out-of-date books were removed from the library shelves as well.

## TOWER ELECTRONICS JANUARY SPECIALS

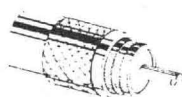
CALL US FOR SAME DAY SHIPPING MASTER CARD, VISA, OR C.O.D.

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SEE US AT THE FOLLOWING HAMFESTS;

JANUARY 7TH - 12TH CONSUMER ELECTRONICS SHOW LAS VEGAS, NV  
JANUARY 10TH WAUKESHA, WI JANUARY 17TH SOUTHFIELD, MI  
JANUARY 30TH ST. LOUIS, MO JANUARY 31ST VILLA PARK (WHEATON), IL



PL-259 SILVER PLATED  
TEFLON CENTER  
MADE IN USA REG \$ 1.50  
\$ 1.00 EACH  
50 FOR \$48.00



GLOW IN THE DARK  
MICROPHONE HANGER  
ADHESIVE BACKING  
REG \$ 1.50  
\$ 1.00  
10 FOR \$ 9.50



INLINE LIGHTER SOCKET  
SOLDER TYPE TERMINALS  
REG \$ 2.00  
\$ 1.75  
10 FOR \$ 17.00



8 PIN MICROPHONE PLUG  
FITS KENWOOD, ICOM, &  
YAesu REG \$ 3.00  
\$ 2.50  
10 FOR \$ 23.00



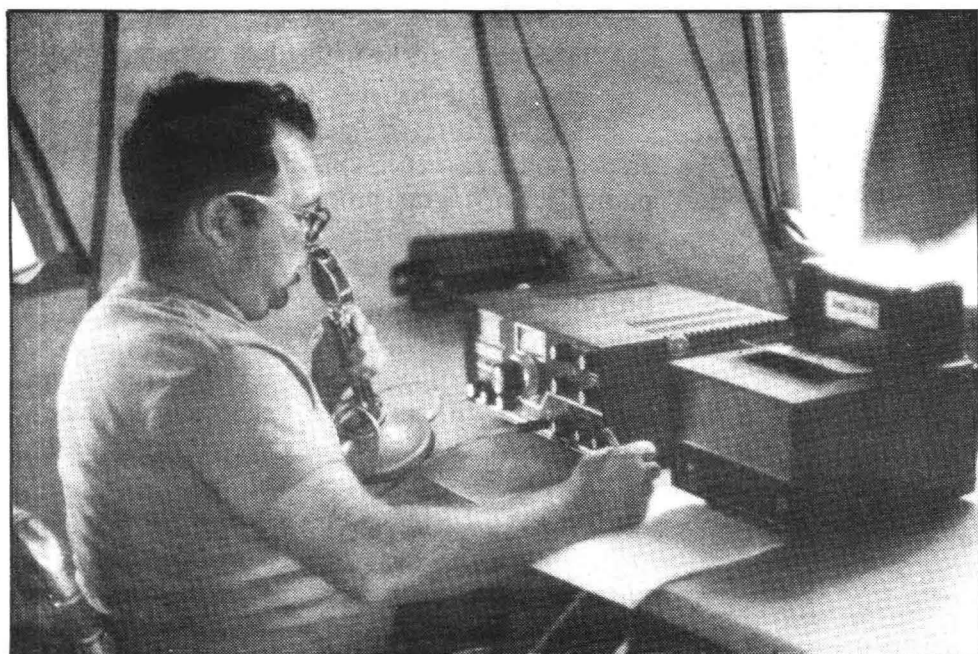
BNC MALE TO  
RCA FEMALE ADAPTOR  
REG 3.00  
\$ 2.00  
10 FOR \$ 19.00



6 FT PATCH CORD  
3.5 MM MALE TO  
3.5 MM MALE  
REG 1.50  
\$ 1.00  
10 FOR \$ 8.00



# Found in the Photo Files



This 1971 photo was taken at the Field Day site of the Yellow Thunder Amateur Radio Club. In the picture, Everett Yost, WA9QWZ, is working hard to deal with the pileups on 20 meters. Everett, now signing KB9XI, has another name, too: Mr. NiCad. Everett is still active on the air, of course, and can often be found on some of the 2-meter repeaters in south-central Wisconsin as he travels a great deal during his day job.

- Photo from YTARC archives



Ten or so years ago, your editor and Ken Ebner, BSSS Publisher and Circulation Department (at right), ran across this fellow after the MARA Swapfest. We dropped Central Division Director Ed Metzger, W9PRN, at the Dane County Regional Airport, and then grabbed a photo of Ken with actor Tom Wopat, originally from Lodi. Wopat played "Luke Duke" on the hit TV series "Dukes of Hazzard."

- K9ZZ photo

## Four Month Delay for New FCC-Issued Amateur Licenses

The FCC has asked volunteer examiners to advise those taking amateur exams that 120 days from the date of the exam is the approximate time it takes to receive a license from the commission. The FCC says efforts are continuing to reduce this processing time.

The FCC asks that applicants not inquire on the status of an application until it has been pending more than 90 days with the commission.

Year-end staff shortages at the commission's special services branch are cited in the recently-increased processing times.

- ARRL Bulletin 117, 12/23/92

## From the Old Goat

Jim Romelfanger,  
K9ZZ, Editor



It was January 1958. A 16-year-old kid ran home from school in Pacific Beach, California, every day and asked, "Did it come yet?" "It" was to be your editor's first Amateur Radio license. And, one day, my mother told me an envelope had arrived from the FCC. I eagerly ripped the envelope open, and, with a smile, proudly told my mom, dad, and sister that I was now KN6LWB! I WAS A HAM RADIO OPERATOR!

What a day that was, 35 years ago, in a place so far away. I eventually got a homebrew 6V6

(that's a tube) crystal oscillator link coupled to a 40-meter dipole. That, two crystals (7170 and 7193), and a National SW-54, and I was a happy camper. I was even happy when I got up at 3 a.m. (I had found that skip lengthened on 40 at night) and awoke everyone I worked **Florida!**

Good days and good times with good people, they were. There were several hams in Electric Shop at Mission Bay High School, including Dick Warren, K6OBS. He ignited my interest in VHF (6 meters, in particular). I wrote a letter to him early this year, and got a prompt reply. I then telephoned him. Gosh, still the same voice! We had a great long-distance reunion. I owe him big for all of his encouragement in a pleasant and peaceful place 2,500 miles from here, and during times that I think were better for us all. Thanks, OT!

You know, I would write about my first ham radio experiences - but I just did.

Happy New Year!

□

# 21<sup>ST</sup> ANNUAL MIDWINTER SWAPFEST SUNDAY JANUARY 10, 1993

8:00 AM - 2:00 PM

WAUKESHA COUNTY EXPO CENTER FORUM  
WAUKESHA, WISCONSIN

ADMISSION: \$3.00 Advance - \$4.00 At Door

RESERVED TABLES: First Single 4 Ft. Space \$3.00 - At Door \$4.00

Additional 4 Ft. Space \$4.00 - At Door \$5.00 (As Available)

(Example: 8 Ft. \$7.00 - At Door \$9.00)

ELECTRICAL OUTLET: \$5.00 (If Available)

FREE COFFEE AND DONUTS Until 9:00 AM

FOOD AND REFRESHMENTS At Our Usual Low Prices

AMATEUR EXAMS in Expo Arena

RESERVATION DEADLINE December 31, 1992

**THE WEST ALLIS RADIO AMATEUR CLUB**

Midwinter Swapfest • Wisconsin QSO Party • WARAC Memorial Scholarships

## Catching Misspelled Swords With Spilling Checker

As an extra added service, I am going to put this column in the Spilling Checker, where I trust it will sale through with flying colons. In this modern ear, it is simply inexplicable to ask readers to expose themselves to misspelled swords when they have bitter things to do.

And with all the other timesaving is in reality very easy to pit together a colon like this one and get it tight. For instants, if there is a work that is wrong, I just put the curse on it, press Delete, and it's Well sometimes it deletes to the end of the lion or worst yet the whole rage.

Four bigger problems, there is the Cat and Paste option. If there is some t est that is somewhere you wish it were somewhere else you jest put curse at both ends and wash it disappear. Where you want it to reappear simply bring four quarts of water to a rotting boil and throw in 112 pounds of dazed chicken. Sometimes it brings in the Cat that was Pasted yesterday.

But usually it comes out as you planned, or better. And if it doesn't, there are lots of easy to lose options, one of which is bound to do exactly what you want. In no time at all you'll be turning out perfect artifacts like this one.444 So join the marsh of progress. Hitch your wagon to a stair. When you become adept at world processing there;s no end in sigh.

- From the "FCC Highlights" column in *Worldradio*, January, 1993, by Jack Kelleher, W4ZC. It was originally published in *IEEE Transactions on Aerospace and Electronic Systems* in March, 1990.





WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

### Central Wisconsin Radio Amateurs Ltd. • Meeting notes, Dec. 9, 1992

#### In attendance:

Joe Larson  
Art Wysocki  
Kevin Haase  
Scott Jasper  
Jim Benak  
Mike Pagel  
Mike Eiden  
Gene Kroll  
Deb Kroll  
Mary Eiden  
Gordon Miller  
Joe Omernik  
Dave Golla  
John Kalina

N9JW  
N9BCA  
N9RAO  
NE9U  
KA9ACE  
KA9LAQ  
WD9JID  
KE9MA  
N9EIL  
KA9FAS  
KE9IA  
N9CGV  
N9OVT  
KA9OJA

The new secretary reported on the results from the Technician class and last Saturday's exams. Twelve people showed up for the exams. Passing their Technician with HF privileges were David Tamres, Richard Hoppe, and James White, all from the Stevens Point area. Also look for new Technicians Loren Larson, Roger McFarland, and Kenneth Slusarski. Steve Kochanowski from Junction City passed his Novice test during the class. Joe Omernik, N9CGV, upgraded to General at other exams last weekend. Congratulations are due to all these fine students!

Art Wysocki, N9BCA, reported on his quest for coax. The manufacturer said they were shipping it out "today," so he should have a lot of it available within a few days. Contact Art if you're looking for a few hundred feet, or even less.

Art also reported on the swapfest, set for June 13, 1993. We will be back in the University Center building on campus, and have commitments from some vendors already. Art is looking for ideas on what to offer for a ham prize, so let him know what goodies you are lusting after this season.

Mike Pagel, KA9LAQ, laid out the menu for our annual banquet. After a flavorful discussion of the multicultural temptations available, we decided not to order something if we didn't know what it was.

The family style banquet will be at Gary Nations Supper Club on Business Highway 51 in Plover, Wisconsin, on January 13, 1993. Social hour starts at 6:00 p.m., with dinner at 7:00 p.m. Entrees will include your choice of turkey with dressing, Italian meatballs, and ham, and we'll save you an extra dessert if Deb will let us. Everyone is welcome. The cost will be \$10.25 per person. Please let Mike know by January 10 at the latest if you are planning to come, either by telephone or packet.

As soon as we can arrange transportation for it, the club will be obtaining a 6 meter repeater. The secretary was appointed to contact the Wisconsin Association of Repeaters (does this mean "WAR"? to get information about reserving a frequency pair.

The business meeting was adjourned, and KA9LAQ gave a demonstration and talk about tower raising, the proper construction and use of gin poles, and how you can develop a wonderful sense of community with your fellow hams while you are helping them hold hundreds of pounds of metal in the air while they dribble hot solder and the occasional screwdriver on your heads. SAFETY FIRST, folks; we don't wear those hard hats just to look cool!

Respectfully submitted by your new club secretary, with thanks and appreciation for a job well done to Jim Benak, KA9ACE, very 73.

Joe Larson, N9JW  
CWRA Club Secretary  
644 Portage Street  
Stevens Point, WI 54481

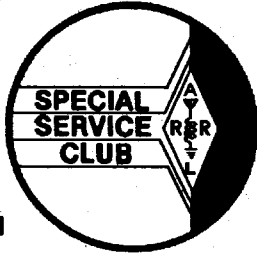
715-344-1182 • packet via W9IHW

## Riverland Amateur Radio Club



Dick Low, K0JYB,  
Secretary

Club mail address: P.O. Box 621  
Onalaska, WI 54650



### MEETING MINUTES DECEMBER 1, 1992

The December meeting of the Riverland Amateur Radio Club was called to order by President Walt, AA9AW, at 7:00 p.m. There were no guests or visitors present.

The minutes of the November meeting were read by President Walt, as Secretary Dick, K0JYB, was unable to attend the meeting. The minutes were approved as read.

The Treasurer's report was given by Duane, W9HWQ, and accepted as read.

### ELECTION OF OFFICERS

Election results for the upcoming year, 1993:

President: Bob Wilson, N9LZK  
Vice President: Feroz Ghose, WU9N  
Secretary: Dick Low, K0JYB  
Treasurer: Duane Freuchte, W9HWQ

### COMMITTEE REPORTS

**PROGRAMS:** Chairman Feroz, WU9N, reminded us that there will be no program this evening because of the election of officers, and no program in January, although the annual RARC party will be held at Christophers on Saturday, January 16, 1992. Happy hour from 6 p.m. to 7 p.m.

Feroz announced that he will no longer be able to handle the program chairman's job, but has enjoyed it for the past two years. President Walt, AA9AW, expressed thanks for Feroz's efforts as program chairman.

**NEW HAM CLASS:** Rick, KV9U, announced that the new class will start on Thursday, Dec. 3rd. There will be an introduction, and they will start right away with existing material. He has no idea as to how many people will show up at this time. Starting time is at 7 p.m., and the fee will be \$5.00, a token amount to help defray some of our costs.

**HAM FEST:** Judy, N9LGV, informed us that the recent Ham Fest was a success, and a date and location has been set for next year's event.

**VE EXAMS:** Rick, KV9U, is planning to have the next exam session on or about the 29th of March, 1993, and hopes to secure this location, the Onalaska Community Center for the event. This will

allow time between our, and the Rochester, Mn exams for those who may wish to retake them.

**REPEATER TECHNICAL COMMITTEE:** Chairman Van, WA9FIO, distributed a paper regarding good autopatch practice, identification, special, tail and bulletin messages. Under good autopatch practices, Van emphasized item #9 which reads as follows: If you recognize that you have mis-dialed on readback, you may click your PTT button during dialing or use the # symbol after dialing to cancel. If your call goes through, STAY ON THE AIR, APOLOGIZE, then HANGUP. This is particularly true if one accidentally dials a 911 number!! The 911 systems know where the call originates.

Under Good WX NET practice, use tactical assigned call signs (or the last 2 or 3 letters of your call sign) and be very brief and factual in giving reports.

**SPECIAL INTEREST GROUPS:** Kent, W9LZQ, reminded us that we are still looking for someone to head the Direction Finding Group.

**PRESIDENT WALT, AA9AW,** offered thanks to each and everyone who has helped out in the past two years, stating that he would had never made it with out your help. The past two years seemed to be reasonably successful, the club membership being way up seems to be a good indicator.

**FEROZ, WU9N,** stated that he would like to say thanks to Walt for the two years of work that he has put in as President of the organization. His leadership and guidance has taken the club to where it has gone. Walt has set a very high precedence.

A hand of appreciation was given to Walt.

### NEW BUSINESS

Karl, KB9EQI, went from Tech to Advanced while Bill, KE9XQ, is now Extra class. They took their exams in Cresco, IA.

Treasurer Duane, W9HWQ, moved that we raise the RARC dues to \$20/yr. The motion was seconded and a discussion held. The motion was voted down.

Meeting adjourned at 8:35 p.m.  
The program for this evening was the gift exchange.

Submitted by Dick, K0JYB

## Eau Claire Amateur Radio Club

Don Franzmann, W9NFJ, Secretary

2728 Marilyn Drive • Eau Claire, WI 54701

### MEETING MINUTES DECEMBER 8, 1992

The club's annual Christmas party was held at the American Legion hall on the eighth of December. Although this date is the club's normal meeting date, the party took precedence, and a good time was had by all.

Our Christmas gathering is traditionally a pot-luck meal, with sliced ham, buns and beverages furnished by the club. Some 54 people were in attendance. Every family or individual member supplied a dish, and we enjoyed a wonderful meal.

A brief meeting was held in order to announce the results of the recent election for the new slate of officers. The results are as follows:

President: Bill Jablonske, W9NNS  
Vice-President: Kevin Zehr, N9OHE  
Secretary: Jim Fitzl, N9LIJ  
Treasurer: Sue Eide, KB9EUP  
Nolene, N9MNA, and Jennifer, N9NFK, administered the distribution of several prizes, which were joyfully received.

Many thanks are in order to the Nominating Committee of KC9NN, N9LIJ, N9HME, and N9NFK, along with W9NW and W9BAR, who tabulated the results. Over 83% of the ballots sent out were returned.

Respectfully submitted:  
Don Franzmann, W9NFJ, Secretary

P.S. Please note that our 1993 Hamfest date has been changed to July 24th.

## Northern Wisconsin Radio Club

- Since 1923 -

Steve Hart, KA9OMC, Secretary

Route 1, Box 54 • Knapp, WI 54749

Greetings, NWRC members and guests.

The last meeting of NWRC was Nov. 24 at the T-Bird Mall, Menomonie. I handed out the following plan from a combination of suggestions over the last couple years:

**WHEREAS** members of the NWRC have suggested to meet on the same evening as the Red Cedar Repeater Association, Inc.;

**WHEREAS** both NWRC and RCRA are both historic in nature;

**WHEREAS** the RCRA has been the main vehicle for the preservation of the NWRC since 1987;

**WHEREAS** members of the NWRC have suggested to appropriate donations of their account to the RCRA;

**WHEREAS** the RCRA would consider donations from NWRC just the same as donations they receive directly from their sponsors;

**BE IT RESOLVED THAT** the RCRA and NWRC will meet on the fourth Tuesday of the month. The RCRA will be an affiliate of the NWRC and both organizations will conduct business separate-

ly. The two groups will work as vehicles to promote each other. The NWRC will be governed by a president, vice president, and secretary/treasurer. The RCRA will operate under its charter from 1974. The NWRC will make suggestions to the RCRA on the suggested use of donations made to the RCRA, and the RCRA will act as a feasibility group as to the use of such money and ideas. The NWRC must pass a constitution and move its fiscal year to the calendar year.

Before this resolution could be acted on, it was necessary to elect two additional officers. I nominated Eric Thibado, N9-KIP, for president and Cory Zito, N9-KVE, for vice president. The officers were voted in unanimously, and a discussion continued about the resolution. Dan, N9-HME, pointed out the need to get the constitution passed in January. The vote was also unanimous on the content of the resolution.

President Eric suggested we do some advertising on the local cable TV for items for our auction, and to inform the community of our club. Arlene, KF9CU, mentioned the bulletin boards in the local

Please turn to page 12



## Mancorad Radio Club

John Meyer, NZ9Z, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204

### MEETING MINUTES DECEMBER 9, 1992

The December meeting of the Man-RoRad Club was called to order at 7:31 p.m. by President Chuck, N9KGL. In attendance were:

Chuck Smith	N9KGL
Len Coombs	N9QFO
Clancy Meneau	KB9ECW
Paul Welnicke	N9QFX
Jan Schaden	N9IQZ
Ron Schaden	WS9X
Dave Jaeger	WN9Q
Carl Olson	KA9ZTF
Dave Schmocker	KJ9I
Red Pajula	N9GHE
Dick Swanson	N9QFY
Steve Bacalzo	N9PBL
Charlie Schiman	W9GXD
Les Peck	WB9MNQ
Hubert Willis	W9TQV
Dan Scherer	KA9EAX
Howard Hamann	KE9YD
Ken Tate	WB9OBX
Vic Holzinger	WB9VYO
Ken Langer	K9HAG
Mary Langer	KB9GOY
Jim Parma	KB9GOX
John Meyer	NZ9Z

The Treasurer's Report was read by Jan, N9IQZ, and was approved as read. The minutes of the November meeting were approved as published in the *Smoke Signals*.

### OLD BUSINESS

Chuck, N9KGL, reported that the crystals for the club's new repeater transmitter should be arriving about December 22nd and will be installed shortly thereafter.

The President also reminded members of the committee signup sheets that were posted in the clubroom and the need to get help from everyone.

Chuck has had no luck in contacting the dealer who was going to buy our spare 6-by trucks. He will keep trying.

Our club insurance was explained by Chuck, who has taken the policy to be interpreted by a local agent. It appears that the ARRL insurance for clubs only covers liability, not equipment or vehicles. A motion was made by Howard, KE9YD, seconded by Dan, KA9EAX, to add a binder to cover our equipment. The motion passed unanimously.

## Northern Wisconsin Radio Club

*Continued from page 11*

papers as sources to inform the community of the club.

Don, WD9IJY, made a recommendation to the RCRA that they install a tone on the output of the 146.01/61 MHz WB9-YMB/R to allow decode. I gave the OK to try the tone.

The next meeting of the NWRC is Jan. 26 at the Peppermill Restaurant, T-

### NEW BUSINESS

Ron, WS9X, reported that the hamfest prices will remain the same for the May 8th, 1993 Lakeshore Hamfest. He will look to increase the number of door prizes to be given away this year. More flyers will be needed promoting the hamfest. The Hamfest Committee will take care of getting them printed.

Chuck mentioned that the Board has decided to look for a used color TV for the clubroom -- for presenting programs. The club could swap for some of its 9913 coax, or pay within the limits authorized to the board.

John, NZ9Z, proposed that a set of 1993 Callbooks be purchased to be available for members to use in the clubroom. A motion that the club purchase callbooks for club use was made by Red, N9GHE, seconded by Carl, KA9ZTF, and passed unanimously.

Autopatch use was again discussed with the reminder given to try to limit unnecessary calls, as Emergency Government is being charged on a per-call basis. After some discussion, it was decided that if there was still a problem, the club might simply offer to pay for its calls.

Howard noted that his grandson Mark, KB9GTT, is an exchange student in Norway and has obtained his Norwegian license as LA0GO. Howard has been in contact with him via HF packet.

John asked members to keep an eye out for NZ9Z/4S7 during the middle two weeks of January, as he will be visiting his friend Victor, 4S7VK. The club and he have helped Victor to get hard-to-obtain equipment in the past. Look for John primarily in the general portions of the 40, 20, and 15 meter bands, CW and SSB. He also hopes to build a 2-element helically wound wire beam for 17 meters. He asked if anyone knew of a source locally for 20 gauge enamelled wire. Clancy, KB9ECW, thought he might have some.

Chuck introduced the program to come after the meeting adjourned. Clancy, KB9-ECW, will present a program on SSTV.

There will be no program at the January meeting, as we will have the VP8SSI presentation by Dave, KJ9I, at the January 30th Banquet. Don't forget to get your reservations in for that -- that program is something to see!

A motion was made to adjourn by Red, seconded by Ron. Meeting adjourned at 8:12 p.m.

*Submitted for approval:  
John Meyer, NZ9Z, Secretary*

*Season's Greetings!*

Bird Mall, Menomonie. Meeting time is 7:30 p.m., and the program is on batteries by Don, WD9IJY. The RCRA will present the Wisconsin Association of Repeaters news from the Dec. issue.

The auction is set for Feb. 23 at the American Legion Post, Water Street, Eau Claire. Doors open at 6 p.m. Sale starts at 7 p.m. No minimum bids this year. Admission free to paid 1993 members, of \$3 general admission. Mark all your items with some type of identification. The club retains 10% of the sale, and the sale is final. The club is not responsible for any personal loss.

*Steve Hart, KA9OMC  
NWRC Secretary/Treasurer*

## Sheboygan County Amateur Radio Club

Steve Meifert, KF9KZ, Secretary

1525 New Jersey Avenue • Sheboygan, WI 53081

The December 8, 1992 meeting was called to order at 7 p.m. by President Chad Christianson, N9HMR.

The minutes from the November meeting were read by Steve, KF9KZ, and a report on the Club's treasury was presented by Luiz, KA9HUF.

Volunteers were enlisted for the Monday night 2 Meter Net Control.

There was no report from the Technical committee.

### OLD BUSINESS

Chad, N9HMR, reminded us of the WAR meeting on December 12.

### NEW BUSINESS

Chad, N9HMR, listed a few of the upcoming club events:

**January 12, 1993** - Regular meeting - Jerry Klabunde, K9JHK, will give a presentation on the Voice Of America.

**February 12, 1993** - Valentine's party and short meeting, 7 p.m. at Nino's. RSVP Luiz, KA9HUF, if you plan on attending. There will be no regular club meeting in February.

**March 9, 1993** - Regular meeting - Dave Schmocker, KJ9I, will give a presentation on his experiences with the VP8SSI, South Sandwich Island

DXpedition.

Tom, AA9BJ, reports that Novice Exams are scheduled for January 20, 1993 at 6:30 p.m. at the Red Cross Building. A complete VE session is scheduled for February 17, 1993, at 6:30 p.m. at the Red Cross. If you plan to attend either, please notify Tom at 458-2307.

The Club's Activity Award is presented monthly to the Member who has shown proof of the most number of contacts for the preceding month. Bring your log to each meeting for verification. If you have any questions, see Penny, KB9BJM.

The meeting was adjourned at 7:30 p.m. Following the meeting, everyone enjoyed refreshments as we watched the messy shack slide show. Two plaques were awarded:

**Neatest Shack** went to Jack Borkenhagen, NS9B.

**Messiest Shack** went to Tom Hetzel, AA9BJ. (Hey, you should see mine, you guys and gals! I clean it [every five years] with a scoop shovel and a pitchfork. - BSSS editor.)

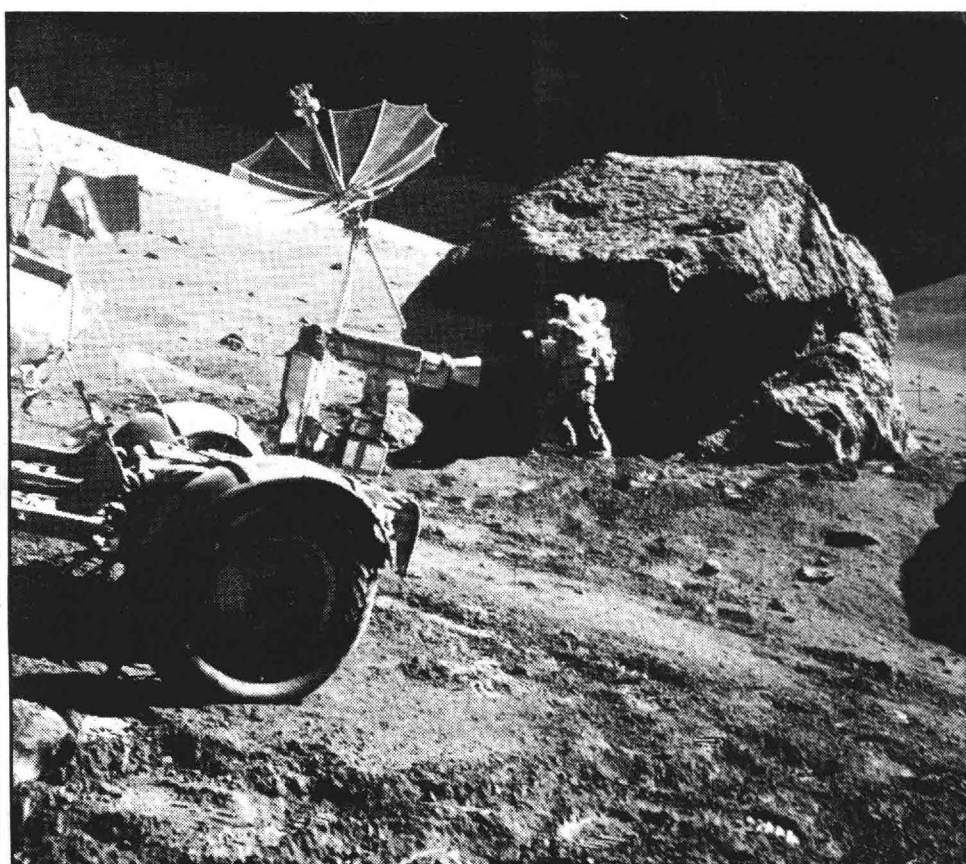
Congratulations to Jack and Tom, and special thanks to Penny, KB9BJM, for an outstanding job on the awards.

*Respectfully Submitted,  
Steve Meifert, KF9KZ*

## Examination Notice

The Sheboygan County Amateur Radio Club VE Team (ARRL/VEC) will be administering all amateur exams on Wednesday, February 17, 1993. The exams will be held at the Red Cross Building, 2032 Erie Avenue, Sheboygan. The exam fee for Technician and higher will be \$5.60 for 1993. Please preregister if you plan on attending. To register, or if you have any questions, contact Tom Hetzel, AA9BJ, (414) 458-2307.

## NASA Helps to Moon BSSS Readers!



This photo, taken almost 20 years ago on the surface of the moon, shows Scientist-Astronaut Harrison Schmitt working beside a huge boulder during the third Apollo 17 Extra-Vehicular Activity (EVA) at the Laurus-Littrow landing site. The front portion of the Lunar Roving Vehicle is visible at the left. The photo was taken by Astronaut Eugene Cernan, Apollo 17 commander. Schmitt was the Lunar Excursion Module (LEM) pilot. While Astronauts Cernan and Schmitt descended in the Lunar Module "Challenger" to explore the moon, Astronaut Ronald Evans, Command Module pilot, remained with the Apollo 17 Command and Service modules in lunar orbit. This was the final lunar landing of the Apollo series. This picture was taken on December 13, 1972.

- NASA photo

## Are You Changing Your Address?

If you are moving to a new address, please notify *Badger State Smoke Signals* at least six weeks before you move. When a subscriber moves and does not let us know, the Postal Service charges us nearly two dollars to (1) forward your copy to you and, (2) send an address correction notice to us. Please send address change information to our Circulation Department: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Your cooperation will be greatly appreciated.



## Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P.O. Box 401 • Abbotsford, WI 54405-0401

### TAYLOR COUNTY AREA AMATEUR RADIO CLUB MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, January 7th at 7 p.m. in the Emergency Government meeting room/Red Cross office, located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on 147.75/147.15 repeater.

The program for the January meeting will be a presentation on the results of a study of the water quality of the Poplar River watershed made by Abbotsford High School biology students and their instructor, Brian Hendrickson.

### NOTICE OF ELECTION OF CLUB OFFICERS FOR 1993

Club officers for calendar year 1993 will be elected at the January meeting. Everyone is encouraged to attend. If you aren't there, you stand a good chance of being elected to an office in your absence. (Ed. - I am speaking from past experience!)

### ATTENTION: 1993 CLUB/REPEATER DUES ARE NOW DUE AND PAY- ABLE!

1993 TCAARC club and repeater dues are now due and payable. Dues for the club and 2-meter repeater, including autopatch, are \$10.00 a year. If you would also like a subscription (or wish to renew your subscription) to *Badger State Smoke Signals*, which carries (prints) our club's monthly newsletter, add another \$5.00 (total of \$15.00). Make checks payable to Taylor County Area Amateur Radio Club. If paying by mail prior to January 7th, send to current club treasurer Ernie Mehner, WD9FWP, 420 W. Center Ave., Dorchester, WI 54425.

After January 7th, contact Mike at 223-3996 for information on where to send dues. Or, bring your payment to the January or other upcoming club meeting.

The following is a list of all those who have already paid dues for 1993, according to my records at this time. I will update my list with the club treasurer in the near future: KA9SMQ, KA9UXN, KA9WDC, KA9WDX, KB9AMX, KB9AMZ, KB9BLV, KE9LX, N9FZD, N9FZS, N9GEN, N9GHZ, NZ9U, W9LEE, W9QHI, WA9ZCO, WD9ASX, WD9C, and WD9FWP.

### EXCERPTS FROM MINUTES OF 12/3/92 TAYLOR COUNTY AREA ARC MEETING

Meeting was called to order by Vice-President KB9BLV in the absence of President N9GEN. Present were Bob Braun, KB9BLV, and Ernie Mehner, WD9FWP (Dorchester); Ray Gajda, N9IDW (Lublin); Bernie Jari, KA9WDX, Ray Bohnert, W9QHI, Cliff Steevens, WA9YCT, and Lee Markow, N9FZD (Medford); Rollie Walty, W9LEE (Westboro); Gary Day, KE4FE (Rib Lake); Mike Schoenfuss, N9GHZ (Abbotsford); and guest Lester Laub (Medford).

N9FZD reported that he has confirmed reservation of the City of Medford "Jaycee Park" by our club for Field Day 1993, and that he should have the Medford City Park by the municipal swimming pool reserved for us for Field Day 1994. It was decided to hold the June, 1993 club meeting at the Field Day site in order to make plans and check the layout. There was also some discussion of combining the June meeting with a potluck dinner/cookout, details to be worked out at a future club meeting.

The club member subscriptions to *Badger State Smoke Signals* were discussed. N9GHZ reported he had received the club's first quarterly billing and had paid

it. The only problem remaining is that the club has no record of when individual members' subscriptions expire, as current members started their subscriptions at different times of the year and for different lengths of time. N9GHZ will contact BSSS to get a list of subscription expiration dates. Motion by N9GHZ, seconded by W9LEE, to collect the members' share of their BSSS subscriptions in January of each year starting with 1993. Motion carried.

N9GHZ passed around a thank you card received from Phyllis Henline, XYL of silent key WA9KMB, for the Amateur Radio publication donated in Earl's name to the Medford Public Library.

Motion by KB9BLV, seconded by KE4FE, to purchase a trickle battery charger from KA9WDX for use on the Medford repeater's emergency power battery. Motion carried.

N9GHZ submitted a bill for approval in the amount of \$19.53 for printing of announcements for the Abbotsford Christmas Parade Amateur Radio communications. No action was taken by the membership present.

Amateur Radio communications for the upcoming (Dec. 5) Abbotsford Christmas Parade were discussed.

N9FZD reported that the next annual St. Jude's Hospital Bike-A-Thon will be held in Medford on May 22nd. A total of 4 operators are needed to provide Amateur Radio communications.

The club's application to the Wis. Dep't. of Transportation's Adopt-A-Highway Program was discussed. There has been no response from the DOT to our application in over a year and most of the prime visibility stretches of highway in Taylor County have already been taken. It was brought out that if the club really wanted to gain exposure, it could purchase or construct its own sign and have it erected at any number of choice locations with the appropriate approval being secured. Motion by N9GHZ, seconded by WD9FWP, to drop the club's application to the Adopt-A-Highway program. Motion carried.

Meeting was adjourned at 7:53 p.m.

### CONGRATULATIONS TO....

- Richard Anderson, Abbotsford, who qualified for a Technician Class license at the VE exam session held in Stevens Point on Dec. 5th. Dick was a student in the Amateur Radio license course being taught by N9GHZ at Greenwood earlier this fall.
- Don Hederer and John Kassie of Colby and Jeff Parker of Loyal, who all passed the Novice Class theory exam on Dec. 7th at Greenwood. They were all students in the Amateur Radio license course being taught by N9GHZ at Greenwood earlier this fall.

- Larry Slezniow of Greenwood, who passed the Novice Class theory exam on Dec. 15th at Colby. He was a student in the Amateur Radio license course taught by N9GHZ at Greenwood earlier this fall.

### IMPORTANT NOTICE: MEDFORD REPEATER AUTOPATCH TEMPOR- ARILY SHUT OFF

On the evening of December 13th, at approximately 8:30 p.m., an unidentified station was heard repeatedly bringing up the autopatch on the Medford repeater and letting it "hang" without dialing any number. This station failed to identify itself when requested. It was using a speed dialer and a 3-tone sequence. Its signals were scratchy at first, but later became stronger. It did NOT appear to be a mobile station. Area hams repeatedly brought the autopatch down, but the station kept bringing it up again. N9GHZ finally drove up to the repeater site and disconnected the telephone line from the repeater.

The telephone line will remain disconnected until the autopatch access code can be reprogrammed, time permitting. When changed, a notice will be sent to all current club members with the new access code. □

## Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

### RACINE MEGACYCLE CLUB MEETING • DECEMBER 14, 1992

It all began with a Potluck dinner at the home of Cheryl, WS9P, and husband Gary Miller. About 25 Hams and spouses attended with lots of good food. We all had a very good time. The highlight was the Auction of donated desserts. Rev. Jim, WA0PFV, held a very funny and profitable auction (\$48.50) and the desserts went fast.

The business meeting was started at 8:00 p.m. by President Brian, WD9FRH. The first point on the agenda was the election of officers for 1993. Dan, KA9OIL, who headed the nomination committee, presented the candidates and they were voted into office. New President is Dick, W5ONL, who won on a written ballot vote. Vice President is Gary, N9MJH. Treasurer is incumbent Dave, WB9ZIO. Secretary is incumbent Arne, KA9ZPY. Activity Chairperson is Bruce, K9RRS, who also ran for President, but lost. It was assumed that he would take the position since he had run for an office but he was not present at the meeting.

The outgoing President, Brian, WD9FRH, was thanked for a job well done. Brian has started the ball rolling for a change to have the election of officers in November instead of December per the By-laws. The new rule will take place in 1993. The By-laws will be reissued for everyone to read in early 1993 showing the old and new rules.

Treasurer Dave, WB9ZIO, presented his report. New balance is \$286.93 not counting the auction proceeds. The Minutes as presented in *Badger State Smoke Signals* were approved without corrections.

### OLD BUSINESS

Dan, KA9OIL, reported on the Megacycle Club sponsored Hidden Transmitters Hunt (Fox Hunt). The winners for 1992 are Dave, KC9NG, and now Silent Key Bill, WU9P, who passed away recently. Dan also said that the trophy will be engraved with both calls.

Ken, N9NBC, asked about the Swan receiver. Gene, WB9CKY, reported that he now has new tubes for it in his home. The radio still has a nonfunctional meter which makes the tuning up risky. It was suggested that we make an appeal to the

### HAM CALENDAR

*Courtesy Racine  
Megacycle Club*

Jan	10	.....	Hamfest at Waukesha
Jan	11	.....	Megacycle Meeting
Feb	8	.....	Megacycle Meeting
Mar	8	.....	Megacycle Meeting
Mar	28	.....	Hamfest at Grays Lake
Apr	4	.....	Hamfest at Madison
Apr	12	.....	Megacycle Meeting
Apr	18	.....	Hamfest at Rockford
May	8	.....	Hamfest at Manitowish
May	10	.....	Megacycle Meeting
May	20, 21, and 22	.....	Hamfest at Racine
Jun	6	.....	Hamfest at Princeton
Jun	13	.....	Hamfest at Stevens Point
Jun	14	.....	Megacycle Meeting
Jul	10	.....	Hamfest at Oak Creek
Jul	12	.....	Megacycle Meeting
Jul	24	.....	Hamfest at Eau Claire
Aug	8	.....	Hamfest at Peotone
Aug	9	.....	Megacycle Meeting
Sep	13	.....	Megacycle Meeting
Oct	11	.....	Megacycle Meeting
Nov	8	.....	Megacycle Meeting
Dec	13	.....	Megacycle Meeting

Ham community to try to find another junked Swan, which we could use for a spare meter.

The meeting was adjourned at 8:25 p.m.

P.S. Dick, W5ONL, forwarded a note to me on Packet Radio earlier in the month which said in short: The basic problem with the Swan 500CX is the sticky meter movement, which makes it impossible to see current peaks or dips. This is probably why the rig has devoured so many final tubes!

The next Megacycle meeting will take place January 11, 1993.

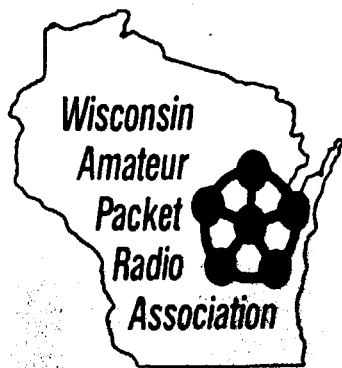
*Respectfully submitted:  
Arne, KA9ZPY, Club Secretary*

## Return Magazines HOW??



Every now and then, we have asked for photos for publication. The best photos are those which require a minimum of explanation; they tell a story pretty well all by themselves. The one above, found in the archives here at BSSS World Headquarters, illustrates how a picture can tell a story, sometimes even with NO explanation! You are encouraged to send pictures to BSSS for publication. Keeping the above in mind, they should show radio amateurs doing something. We can use either black and white or color photos, however the grey scale will not be exact in a picture reproduced in black and white from a color photo. Pictures must be properly exposed and focused. They should be sent to Jim Romelfanger, K9ZZ, Editor, 412½ Ash Street, Baraboo, WI 53913-2501. Photos are not usually returned. □





# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

William Schroeder, W9ZBD  
4247 Forest Point Drive • Rhinelander, WI 54501

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

QST DE WIAN  
ARRL BULLETIN 116 ARLB116  
FROM ARRL HEADQUARTERS NEWINGTON CT  
DECEMBER 22, 1992  
RELAYED BY K9WJH/OBS & BART-80 BBS  
TO ALL RADIO AMATEURS

SE QST ARL ARLB116  
ARLB116 PROJECT

The following was provided by Ed Juge, W5T00,  
Chairman of the ARRL Digital Committee.

## ARRL DIGITAL COMMITTEE PROTOCOL STANDARD PROJECT

The ARRL Committee on Digital Communication has begun a project to define a standard for the interchange of messages between Amateur bulletin board systems. Craig McCartney, W8DRZ, has been appointed project coordinator and Vic Poor, W5SM, alternate coordinator. The committee has accepted an offer from Bob Arasmith, NOARY, to use his packet/internet BBS as a collection point for all documents related to the project, and to act as librarian and editor for the project.

Interested amateurs are encouraged to contribute specifications for currently used software, comments, suggestions or any data that would contribute to drafting a final specification. The initial phase of the project is to establish current practices in writing, and to draft a minimum set of functions that an amateur bbs should perform for inter-bbs compatibility. At the successful completion of this first phase, the committee will consider extending the project to include extended features that require standards for inter-bbs compatibility.

information contributions to the project should be addressed to NOARY at NOARY.OCAL.CA.USA.NA over amateur channels or NOARY at ARASMITH.COM over INTERNET. All interested amateurs are encouraged to participate.  
NNNN

## Russian Callsign Database Plus.

I have the R & R Russian Callsign Database containing 30,780 names & QSL addresses of stations in Russia available free of charge,

(except for your fone bill) on my LL BBS.. The File is named RRCALLS.EXE and is 991,928 bytes in size.. There are also MED files & quite a few other programs available.. The fone number is (414) 466-8909 & is a Milwaukee number. Have fun es 73.. Dan WB9TYT @ WB9TYT.WKE.WI.USA.NOAM

New MSYS bbs in Burnett. 145.69

Hello All you Avid Packet People. I have set up a MSYS bbs on 145.69, and it is easily accessible from WISLG. All the bugs have been worked out, and I am ready to announce my pre-sense. It is going to be a little while before I start getting forwarded messages, because I am still lacking a 220 rig. But please feel free to check it out, and there are a few downloadable files, but if you have any files that I can fill the hard drive with, please send them my way.

Any personal mail, will be forwarded out, and forwarded in, with no problems what so ever. All bulletin messages will be handled the same way. If you leave a message on this board that needs to go out, it will get there, and if the bbs tells you otherwise, I will do my best to get it out. Any mail that is addressed to N9ONP.WI.USA.NA will come in, but rtwis, allusa, etc, will not be coming in, but will go out if left.

I hope to start seeing some activity here in the near future, and I wish each and every one of you a Merry Christmas, and Happy New Year.

de N9ONP @ N9ONP.WI.USA.NA — A.J.

Happy Holidays

Hello All,

I would like to take this time to thank those of you that have helped me get this bbs on the air, and for those of you sending me messages, and helping me along. Everything on this new system is working out very well. There are now 400 messages on the bbs, from allusa, rtwis, and dist9. There are even files starting to get into the W directory. I would like to wish you all a Merry Christmas, And a Happy New Year. I wish you all the best, and please keep it safe.

de N9ONP @ N9ONP.WI.USA.NA — A.J.

## OLD PARTS NEEDED

I'm in the process of building a reproduction of a 30's/40's style breadboarded transmitter. Between Antique Electronic Supply and the local surplus house I've managed to round up most of the old parts that I need, but I'm still on the lookout for postage stamp type mica caps (3 or 6 color dot) and body-end-dot resistors. If anyone has info on an antique or surplus dealer stocking these oldies but goodies, I'd sure appreciate finding out where to stock my junkbox. Thanks and Happy Holidays, Rick KOWAL.

Pkware (zip) Known Hack Versions..

In attempt to clarify the situation in regards to the fake release versions of PKZIP, here is a list that was taken from the PKware Landline BBS System, explaining the known hack versions of the code.

If you have any information as to the original source of any of these hacks, please either leave mail for the sysop on the PKWARE BBS (414-354-8670), or call us at 414-354-8699.

Known PKZIP related hacks as of 9/30/92:

Name	Information
PKZIP120	Early hack of 1.1
PKZIP20B	Hack of 1.1
PKZIP V2.EXE	Trojan, will erase hard drives
PKZ201.ZIP	Hack of 1.93
PKZ201.EXE	"
PKX201.EXE	"
PKZ210F.EXE	Unknown
PKZIPV2	Trojan, will erase hard drives
PKUNZIP.COM	Unknown
PKZIP203.EXE	Unknown
PUTAV 1.93	Fake putav program (trojan)
PKZIP 1.99	Unknown
PKZIP 2.02	Unknown
PKZIP 2.2	Trojan destroys hard drives
PKZ305.EXE	Hack of 1.93, fake AV.

General guidelines for detecting a hack:

The real PKZIP 2 will use a method of compression called "Deflating". There are FOUR methods of Deflating plus a NO compression option: -ex -en -ef -es -eo.

PKWARE's AV code is: PKW655. The AV method used by PKZIP 1.10 and 1.93 is different from that used for PKZIP 2.

The PKZIP 2 documentation is completely new. All hacks shown above either have no documentation or a slightly modified version of the PKZIP 1.0 docs.

PKZIP 2 will be distributed in a self-extracting (EXE) file. PKWARE software would never be distributed as a .ZIP file or any other archive format.

PKZIP 2 will be sent to registered users before it is posted by PKWARE. PKZIP 2 will be available on PKWARE BBS as soon as the upgrades have been shipped.

PKWARE Inc. Phone numbers and address will be on the real PKZIP 2:

PKWAR Inc.  
9025 N. Deerwood Dr.  
Brown Deer, WI 53223  
(414)354-8699  
(414)354-8559 FAX  
(414)354-8670 BBS

PKWARE BBS offers 14.4K Dual Standard modems (v.32/v.42bis) on all nodes.

## Wisconsin Amateur Packet Radio Membership Application

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Home BBS: \_\_\_\_\_ Monitor Freq.: \_\_\_\_\_ Hours of Operation: Day: ☐ Night: ☐ 24 Hour: ☐  
Station: Power: \_\_\_\_\_ Ant. Gain: \_\_\_\_\_ Height: \_\_\_\_\_ TNC: \_\_\_\_\_ Computer: \_\_\_\_\_  
Station Capabilities: HF: ☐ 2M: ☐ 220 MHz: ☐ 440 MHz: ☐ Other: \_\_\_\_\_  
I operate a Digipeater: ☐ Alias: \_\_\_\_\_ Packet BBS: ☐ Software Used: \_\_\_\_\_  
Primary Interest in Packet: \_\_\_\_\_

Please return this form, COMPLETED, with your check/money order for \$15.00 to:  
Wm. A. Schroeder, W9ZBD, 4247 Forrest Point Dr., Rhinelander, WI 54501



# THE TEST POINT (continued from page 4) TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC).  
Tomahawk, WI. No preregistration required, but  
appointment would be appreciated. Registration  
at 8:30 a.m. and testings starts at 9:00 a.m.  
For location or other information, inquire on  
145.43 MHz. repeater or contact: Greg Garner,  
WA9W, 4088 Highway 51, Harshaw, WI 54529. Tele-  
phone (715) 453-7096.

## DUBUQUE, IOWA - ARRL/VEC

Amateur examinations will be held on March  
6, June 12, Aug. 21 and Nov. 20 in 1993.

Great River Amateur Radio Club VEs are now  
field stocked, which means retests can be given  
immediately.

Exams are held at 9:00 am at the Central  
Fire Station, 9th and Central in Dubuque. Use  
the basement entrance on 9th street. For more  
info, contact Mike Jozefowicz, NSOU, 2735 Hick-  
ory Hill, Dubuque, IA 52001. Or call Mike at  
319-582-8563. Talk-ins are on the 147.84/24,  
147.63/03 and 146.295/895 repeaters.

Arthur A. Evans, KA9KLZ  
213 N Jefferson St.  
Cuba City, WI 53807-1558  
608-744-2704

## APPLETON, WI - ARRL/VEC MANITOWOC, WI (HAMFEST) KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team.  
Contact: Larry Siebers, (414) 788-3823

## MENOMONIE, WI

The Northern Wisconsin RC will be sponsor-  
ing exams from 9:00 to 11:30 a.m. at the UW  
Stout Communication Center, 820 South Broadway,  
Menomonie, WI. Use the north entrance. Walk-ins  
only. Contact Jim Ley, NX9F. Work: (715) 232-  
1397, Home: (715) 235-3998.

## RIVER FALLS, WI

Contact: Scot Thompson, (715) 425-7317.

## SHEBOYGAN, WI

The Sheboygan County Amateur Radio Club VE  
Team (ARRL/VEC) will be administering all ama-  
teur exams on Wednesday, February 17, 1993. The  
exams will be held at the Red Cross Building,  
2032 Erie ave., Sheboygan. The exam fee for  
Technician and higher will be \$5.60 for 1993.  
Please preregister if you plan on attending. To  
register, or if you have any questions, contact  
Tom Hetzel, AA9BJ, (414) 458-2307.

## LOVES PARK, IL

Third Saturday of every month. Northern  
Illinois Volunteer Examiners (Great Lakes ARC  
VEC). Held at North Suburban District Library,  
6340 North Second St. (Hwy. 251), Loves Park,  
IL. Contact: Paul K. Dean, WB9HGZ, (815) 987-  
6754.

## Out of State Exams

Information Provided  
by the ARRL/VEC



All are ARRL/VEC unless otherwise shown.  
Contact information from ARRL/VEC.

## EASTERN IOWA

Cresco, 319-547-5329, Jim Murphy  
Des Moines, 515-967-3890, Jim Snapp  
Dubuque, 319-582-8563, Mike Jozefowicz

## NORTHERN ILLINOIS

Dixon, 815-284-6380, Charles W Randall  
Lincoln, 312-465-0981, Michael Leibovitz, WA9EVF  
McHenry, 815-678-4276, Jack Hudson  
Oak Forest, 708-448-9432, David Brasel

## MINNESOTA

Apple Valley, 612-432-1640, Paul Ramey WGOG  
Saint Paul, 612-888-6187, Jerry Jensen  
St Paul, 612-222-7253, John Bellows  
St Paul Park, 612-459-8678, David Harrell

# Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959

The December 10, 1992 meeting of the Yellow  
Thunder Amateur Radio Club, Inc., was called to  
order at 7:37 p.m. by Bob Sauvan, WT9Q.

The minutes of the last meeting, as pub-  
lished in the BSSS, were accepted on a motion by  
L. J. Hemmer, WB9TFJ, and seconded by Art Klee-  
fisch, W9WSS.

In the absence of Jim Decker, WB9QUT,  
President Bob Sauvan gave the Treasurers Report.  
OLD BUSINESS:

Art Kleefisch brought in the books that the  
Baraboo Public Library purchased based on our  
recommendation. Art also thanked Jim Decker for  
his help in the recent mailing to members that  
included a roster, meeting dates for next year  
and membership renewal form. Members should note  
and correct that the meeting dates are either  
Tuesday, Wednesday, or Thursday and NOT Monday,  
Tuesday or Wednesday as stated in the letter.

## NEW BUSINESS:

The Monday, Jan. 12 meeting will be a tour  
of NEC in Middleton. Members wishing to go can  
meet at Piggly-Wiggly, on Highway 12, by Cul-  
vers Restaurant, Sauk City, at 6:45 p.m. Ar-  
rangements have been made for a bus to take  
members at no charge to NEC. The bus will leave  
at 7:00 p.m. and will return when the  
meeting/tour is over. (Alternate date Jan. 19.)

Dues are due by the January meeting. Those  
wishing to become a member of CWRA, may include  
an additional twenty dollars.

Bob Sauvan congratulated Duane Grotophorst,  
KA9HKL, for being the top scorer in Wisconsin  
during the June VHF QSO party, working 2, 6 and  
432 MHz.

Bill Klinkner, N9PQL shared his ideas for  
activities following each meeting for the upcom-  
ing year.

Buck night drawing was won by Harold Reif,  
KA9YQP, who was present, bet declined, as he won  
last month. George Gabay, N9QQR then won one  
dollar.

Motion was made by Harold Reif, KA9YQP and  
seconded by L.J. Hemmer to adjourn the meeting.  
Gifts were then exchanged.

Respectfully submitted,

Raymond J. Matlosz, N9MLZ, Secretary

The following members and guests were  
present:

L. J. Hemmer, WB9TFJ	Baraboo
George Gabay, N9QQR	New Lisbon
Raymond Matlosz, N9MLZ	Reedsburg
Anne Klinkner, N9PQL	Prairie du Sac
Bill Klinkner, N9KXX	Prairie du Sac
Duane Grotophorst, KA9HKL	Loganville
Harold Reif, KA9YQP	Baraboo
Bob Sauvan, WT9Q	Sauk City
Arthur Kleefisch, W9WSS	Baraboo
Thomas Harrison, N9PQJ	Reedsburg
Peter Sweeney, W9JTB	Reedsburg
Harry Mayland, K9EFT	Baraboo
John Beasman, N9PQP	Baraboo
Mark Snyder, N9MVV	North Freedom
Kailey Snyder	North Freedom
Allison Snyder	North Freedom
Ben Paepke	Prairie du Sac

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Pine, Sturgeon Bay, WI 54235.

FOR SALE: Colorful United States Stamps. 100 all  
different. \$1.00 postpaid. Richard Regent,  
K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

## TECHNICAL HUMOUR

Hi all, thanks for reading this message...

I was most surprised at the response I got  
with the last technical humour bulletin that I  
have decided to give it another go with some  
customer quotes that last time was limited to  
the uk only, but this one will go out ww. I hope  
you get as much enjoyment out of reading them as  
I get out of writing them....

1. There's nothing wrong with it, I just can  
not get a picture!...
2. The set is dead it must be the on off  
switch!..

3. Don't send that bloke again, He told me  
it was my aerial, I know it is not my aerial as I  
put it up myself!....

4. I was in all day, your man called and  
put a card through my door, I was only out for  
10 minutes!...

5. Is that all it was and your charging me  
all that!...

6. There's not much wrong with it, the pic-  
ture valve has gone!....

7. It always breaks down when I want to  
watch it!...

8. your bloke called, Taped the back and  
told me it will have to go back to the  
workshop!....

9. he had only been here 5 minutes and told  
me there was nothing wrong with it!

. It goes off but it hasn't done it for 3  
weeks now can you fix it and will it be ok for  
Christmas?....

Ok that's it for now, there will be some  
more about as it is that Christmas time when we  
get full of customers wanting the old tv or hi  
fi working for Christmas.

From: GOGIR @ GB7ICE.#34.GBR.EU

(Anyone who has serviced consumer products  
can easily identify with the above. Ken, K9EN.)

WANTED: Good Woman who can clean, cook,  
fish, sew, dig worms and owns a boat and motor.  
Send Photo -- of B & M.

From San Jose Engineers Club (via ARNS)

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JACK D. TROYER, R. PH. - DAVID M. FUHS, R. PH.

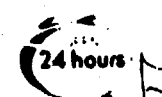
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## SWAPFESTS



21<sup>st</sup> ANNUAL MIDWINTER  
**SWAPFEST**  
WAUKESHA EXPOSITION CENTER  
WAUKESHA, WISCONSIN  
**SUNDAY  
JANUARY 10, 1993**

1992 WINNERS  
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Robert J. Greenawald, N9HLD, Madison  
Douglas Kiceman, KA9LWN, Shawano

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**April 4, 1993**

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SOUTH MILWAUKEE AMATEUR RADIO CLUB

**SWAPFEST 93**

**July 10, 1993**  
(Held every July)

**American Legion Park**  
Shepard Ave. • Oak Creek, WI

(414) 762-3235 Extension 58  
P.O. Box 102 South Milwaukee, WI 53172

**Fox Cities Hamfest**

**November 7, 1993**

**Starlite Club, Hwy. 55 north of Kaukauna**

HAMFEST INFO:  
Dan Vanevenhoven, N9LVS  
2410 E. Newberry Ct.  
Appleton, WI 54915  
414-739-5101

EXAM INFO:  
Larry Siebers, KD9IA  
414-788-3823

**Lakeshore Hamfest**  
& Computer Swapfest

Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on Cty Highway R

**Saturday, May 8, 1993**

For more information, call:

Ron, WS9X: 414-793-4733 (Nights)  
Red, N9GHE: 414-684-9097

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

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AREA AMATEUR RADIO CLUB, P.O. BOX 3508, PEORIA, IL  
.61612-3508 OR CALL (309) 685-6698 FOR INFORMATION

15th Annual  
**CWRA SWAPFEST**

Sunday, June 13, 1993 • 8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: Art Wysocki, N9BCA 715-344-2984  
3356 April Lane Stevens Point, WI 54481

EAU CLAIRE AMATEUR RADIO CLUB

**SWAPFEST**

**July 24, 1993 • 7:30 a.m. - 2 p.m.**  
**Chippewa Falls Fairgrounds**

Lis Searing, N9EQR 1129 McKinley Road  
(715) 834-1303 Eau Claire, WI 54701

**ROCKFORD HAMFEST  
AND COMPUTER SHOW**

**Sunday, April 18, 1993**

Rockford Metro Centre

Tables: \$12.50 and \$10.00  
(After April 1, all tables \$12.00)

Write to: R.A.R.A., P.O. Box 6931, Rockford, IL 61125.  
For more info, call 1-815-399-6995

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Northern Wisconsin Radio Club

**AUCTION**

**February 23, 1993 • 7:00 p.m.**

**American Legion Post 53 • 634 Water Street**  
**Eau Claire, WI**

CONTACT:

Steve Hart, KA9OMC 715-665-2374  
Route 1 Box 54 Knapp, WI 54749

715-644-2112 FAX: 715-644-2621

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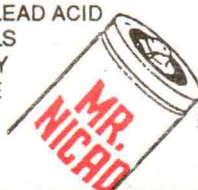
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